

158232



ORIGINAL

CDM FEDERAL PROGRAMS CORPORATION

RE: 10e, 3d, ~~3e~~

COVER  
LETTER  
ONLY

November 5, 1991

Mr. Cesar Lee  
EPA Work Assignment Manager  
U.S. Environmental Protection Agency  
841 Chestnut Street  
Philadelphia, Pennsylvania 19107

PROJECT: EPA CONTRACT NO: 68-W9-0004  
DOCUMENT NO: TES7-C03042-EP-CNTX  
SUBJECT: Work Assignment C03042  
Salford Quarry Superfund Site

Dear Mr. Lee:

Enclosed please find the letter to residents disclosing sample results for the above referenced work assignment.

If you have any questions, please contact me at (215) 293-0450.

Sincerely,

CDM FEDERAL PROGRAMS CORPORATION (FPC)

(KAT for:

Mark diFelicianantonio  
Regional Manager

MdF/slf

Enclosure

cc: B. FOSTER (3WM41) 11/6/91  
D. STERNBERG (3EA21)  
J. OWENS (3HW31)  
R. SMITH (3HW15)  
D. EWALD, FADER  
C. HAYDEN (3RC21) for Estimation Hearing

cc: Donna McGowan, TES VII Regional Project Officer, CERCLA Region III (letter only)  
Jean Wright, TES VII Zone Project Officer (letter only)  
Constance V. Braun, FPC Program Manager

AR500124

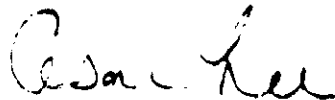
AR 500125

ORIGINAL  
(Red)

reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,



Cesar Lee (3HW21)  
Remedial Project Manager  
SE Pennsylvania Remediation Division

Enclosures: Sample Results Reports  
Summary of Select EPA Standards  
Boron Fact Sheet

cc: Bill Foster, Drinking Water Contact

AR500125 A

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

LAB SAMPLE NO.

69753

ORIGINAL  
(Red)

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 69797

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: E4424

Level: (low/med) LOW

Date Received: 7/13/91

% Moisture: not dec. 100.

Date Analyzed: 7/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

DRAFT

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	IU
74-83-9	Bromomethane	10.	IU
75-01-4	Vinyl Chloride	10.	IU
75-00-3	Chloroethane	10.	IU
75-09-2	Methylene Chloride	5.	IU
67-64-1	Acetone	10.	IU
75-15-0	Carbon Disulfide	5.	IU
75-35-4	1,1-Dichloroethane	5.	IU
75-34-3	1,1-Dichloroethane	5.	IU
540-53-0	1,2-Dichloroethane (total)	5.	IU
67-66-3	Chloroform	5.	IU
107-06-2	1,2-Dichloroethane	5.	IU
78-93-3	2-Butanone	10.	IU
71-55-6	1,1,1-Trichloroethane	5.	IU
56-23-5	Carbon Tetrachloride	5.	IU
108-05-4	Vinyl Acetate	10.	IU
75-27-4	Bromodichloromethane	5.	IU
78-87-5	1,2-Dichloropropane	5.	IU
10061-01-5	cis-1,3-Dichloropropene	5.	IU
79-01-6	Trichloroethene	5.	IU
124-48-1	Dibromochloromethane	5.	IU
79-00-5	1,1,2-Trichloroethane	5.	IU
71-43-2	Benzene	5.	IU
10061-02-6	Trans-1,3-Dichloropropene	5.	IU
75-25-2	Bromoform	5.	IU
108-10-1	4-Methyl-2-Pentanone	10.	IU
591-78-6	2-Hexanone	10.	IU
127-18-4	Tetrachloroethene	5.	IU
79-34-5	1,1,2,2-Tetrachloroethane	5.	IU
108-88-3	Toluene	5.	IU
108-90-7	Chlorobenzene	5.	IU
100-41-4	Ethylbenzene	5.	IU
100-42-5	Styrene	5.	IU
1330-20-7	Xylene (total)	5.	IU

AR500126

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

69753

ORIGINAL  
(Red)

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 69797

Matrix: (soil/water) WATER

Lab Sample ID:

DRAFT

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: E4424

Level: (low/med) LOW

Date Received: 7/19/91

% Moisture: not dec. 100.

Date Analyzed: 7/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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13  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

69753

Lab Name: NET

Contract:

Lab Code: NET

Case No.: GOLFORD SAS No.:

SDG No.: 69797

Matrix: (soil/water) WATER

Lab Sample ID:

DRAFT

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: A9223

Level: (low/med) LOW

Date Received: 7/19/91

% Moisture: not dec. 100. dec. 0.

Date Extracted: 7/23/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 7/28/91

SPC Cleanup: (Y/N) N

pH: .0

Dilution Factor: 1.00

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	g
108-95-2	Phenol	10.	1U
111-44-4	bis(2-Chloroethyl)ether	10.	1U
95-57-8	2-Chlorophenol	10.	1U
541-73-1	1,3-Dichlorobenzene	10.	1U
106-46-7	1,4-Dichlorobenzene	10.	1U
100-51-6	Benzyl alcohol	10.	1U
95-58-1	1,2-Dichlorobenzene	10.	1U
95-48-7	2-Methylphenol	10.	1U
39638-32-9	bis(2-Chloroisopropyl)ether	10.	1U
106-44-5	4-Methylphenol	10.	1U
621-64-7	N-Nitroso-di-n-propylamine	10.	1U
67-72-1	Hexachloroethane	10.	1U
98-95-3	Nitrobenzene	10.	1U
78-53-1	Isophenone	10.	1U
88-75-5	2-Nitrophenol	10.	1U
105-67-9	2,4-Dimethylphenol	10.	1U
65-85-0	Benzoic acid	50.	1U
111-91-1	bis(2-Chloroethoxy)methane	10.	1U
120-83-2	2,4-Dichlorophenol	10.	1U
120-82-1	1,2,4-Trichlorobenzene	10.	1U
91-20-3	Naphthalene	10.	1U
106-47-8	4-Chloroaniline	10.	1U
87-68-3	Hexachlorobutadiene	10.	1U
59-50-7	4-Chloro-3-methylphenol	10.	1U
91-57-6	2-Methylnaphthalene	10.	1U
77-47-4	Hexachlorocyclopentadiene	10.	1U
88-06-2	2,4,6-Trichlorophenol	10.	1U
95-95-4	2,4,5-Trichlorophenol	50.	1U
91-58-7	2-Chloronaphthalene	10.	1U
88-71-4	2-Nitroaniline	50.	1U
131-11-3	Dimethylphthalate	10.	1U
208-96-8	Acenaphthylene	10.	1U
606-20-2	2,6-Dinitrotoluene	10.	1U

AR500128

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

69753

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SOS No.: 69797

Matrix: (soil/water) WATER

Lab Sample ID:

DRAFT

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: A9223

Level: (low/med) LOW

Date Received: 7/19/91

% Moisture: not dec. 100. dec. 0.

Date Extracted: 7/23/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 7/26/91

GPC Cleanup: (Y/N) N pH: .8

Dilution Factor: 1.00

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

99-09-2	3-Nitroaniline	50.	1U
83-32-9	Acenaphthene	10.	1U
51-23-5	2,4-Dinitrophenol	50.	1U
100-02-7	4-Nitrophenol	50.	1U
132-64-9	Dibenzofuran	10.	1U
121-14-2	2,4-Dinitrotoluene	10.	1U
84-66-2	Diethylphthalate	10.	1U
7005-72-3	4-Chlorophenyl-phenylether	10.	1U
86-73-7	Fluorene	10.	1U
100-01-6	4-Nitroaniline	50.	1U
534-52-1	4,6-Dinitro-2-methylphenol	50.	1U
86-30-6	N-Nitrosodiphenylamine (1)	10.	1U
101-55-3	4-Bromophenyl-phenylether	10.	1U
118-74-1	Hexachlorobenzene	10.	1U
87-88-3	Pentachlorophenol	50.	1U
85-61-8	Phenanthrene	10.	1U
120-12-7	Anthracene	10.	1U
84-74-2	Di-n-butylphthalate	10.	1U
205-44-0	Fluoranthene	10.	1U
129-00-0	Pyrene	10.	1U
85-68-7	Butylbenzylphthalate	10.	1U
91-94-1	3,3'-Dichlorobenzidine	20.	1U
56-55-3	Benzo(a)anthracene	10.	1U
218-01-9	Chrysene	10.	1U
117-81-7	bis(2-Ethylhexyl)phthalate	10.	1U
117-84-0	Di-n-octylphthalate	10.	1U
205-57-2	Benzo(b)fluoranthene	10.	1U
207-08-9	Benzo(k)fluoranthene	10.	1U
50-32-8	Benzo(a)pyrene	10.	1U
193-29-5	Indeno(1,2,3-cd)pyrene	10.	1U
53-70-3	Dibenz(a,h)anthracene	10.	1U
191-24-2	Benzo(g,h,i)perylene	10.	1U

(1) - Cannot be separated from diphenylamine

AR500129

17  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

69753

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAB No.:

SDB No.: 69797

Matrix: (soil/water) WATER

Lab Sample ID:

DRAFT

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: A9223

Level: (low/med) LOW

Date Received: 7/19/91

% Moisture: not dec. 100. dec. 0.

Date Extracted: 7/23/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 7/28/91

GPC Cleanup: (Y/N) N pH: .0

Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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ORIGINAL  
(Red)

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DRAFT

EPA SAMPLE 50038

DO16GW01

Lab Name: CAMBRG Contract: ENVIRON  
Lab Code: CAMBRG Case No.: FD414B SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
Matrix: (soil/water) WATER Lab Sample ID: 0565-12618  
Sample wt/vol: 1000 (g/mL) ML Lab File ID: \_\_\_\_\_  
Level: (low/med) LDW Date Received: 07/19/91  
% Moisture: not dec. \_\_\_\_\_ dec. \_\_\_\_\_ Date Extracted: 07/23/91  
Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/04/91  
GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS	
		(ug/L or ug/Kg) <u>UG/L</u>	<u>G</u>
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	Lindane	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

AR500131

NE

## U.S. EPA - CLP

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

69753

Lab Name: NET ATLANTIC THOROPARE DI Contract:

Lab Code: NET Case No.: SAS No.: SALFORD SDG No.: 69683

Matrix (soil/water): WATER

Lab Sample ID: 23180-11S

Level (low/med): LOW

Date Received: 07/19/91

Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L **DRAFT**

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	30.00	U		P
7440-36-0	Antimony	25.00	B		P
7440-38-2	Arsenic	2.00	B		F
7440-39-3	Barium	197.00	B		P
7440-41-7	Beryllium	2.00	U		P
7440-41-7	Cadmium	2.00	U		P
7440-70-2	Calcium	38500.00			P
7440-47-3	Chromium	3.00	U		P
7440-48-4	Cobalt	5.00	U		P
7440-50-8	Copper	19.00	B		P
7439-89-6	Iron	11.00	U		P
7439-92-1	Lead	13.00			F
7439-95-4	Magnesium	17300.00			P
7439-96-5	Manganese	2.00	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	6.00	U		P
7440-09-7	Potassium	868.00	B		P
7782-49-2	Selenium	3.00	U		F
7440-22-4	Silver	4.00	U		P
7440-23-5	Sodium	9140.00			P
7440-28-0	Thallium	3.00	U		F
7440-62-2	Vanadium	4.00	U		P
7440-66-6	Zinc	23.00			P
	Boron	600.00			P
	Cyanide	10.00	U		C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

826B-DO16-GW01

AR500132

# ETC

## LABELLING CODES FOR GRAPHITE FURNACE AA ANALYSIS

BLANK	-	Standard Blank
STANDARD 1	-	STD 1
STANDARD 2	-	STD 2
STANDARD 3	-	STD 3
STANDARD 4	-	STD 4
CSBLK/CBBLK	-	Calibration/Verification Blank
CSSTRCON	-	Initial/Continuing Calibration Verification Solution
CSFNLAB/CSFNLAB2	-	Laboratory Control Sample
RSQXXXXX	-	Method Blank
KKIFBPX	-	Method Blank Spike
RSXXXXXX	-	Sample
KSIFBPX	-	Matrix Spike
QSXXXXXX	-	Duplicate Sample

## LABELLING CODES FOR MERCURY ANALYSIS

QC-EPA	-	Initial Calibration Verification Solution
BLK	-	Blank
CONTROL	-	Continuing Calibration Verification Solution
QXXX -1,2	-	Method Blank in Duplicate
-A1	-	Method Blank Spike
XXXXXX-1,2	-	Sample in Duplicate
-A1	-	Matrix Spike

## KEYS TO ETC REPORTING

ND	-	Concentration Below IDL
BMDL	-	Concentration Greater than IDL but less than MDL

## CLP DATA QUALIFIERS

E	-	Indicates the reported value is estimated due to the presence of interference.
S	-	Indicates the reported value was determined by Method of Standard Additions (MSA).
N	-	Indicates spiked sample recovery is not within control limits.
*	-	Indicates duplicate analysis is not within control limits.

AR500133

For reporting results to the USEPA, the following contract specific qualifiers are to be used. The seven qualifiers defined below are not subject to modification by the laboratory. Up to five qualifiers may be reported on Form I for each compound.

The seven EPA-defined qualifiers to be used are as follows:

- U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10 U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to:

$$\frac{(330 \text{ U})}{D} \times df \quad \text{where } D = \frac{100 - \% \text{ moisture}}{100}$$

and df = dilution factor

$$\text{at } 24\% \text{ moisture, } D = \frac{100 - 24}{100} = 0.76$$

$$\frac{(330 \text{ U})}{.76} \times 10 = 4300 \text{ U} \quad \text{rounded to the appropriate number of significant figures}$$

For soil samples subjected to GPC clean-up procedures, the CRQL is also multiplied by 2, to account for the fact that only half of the extract is recovered. Note: If GPC procedures are employed do not include the factor of 2 in the dilution factor reported on Form I. Do enter "Y" under GPC(Y/N).

- J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero. For example, if the sample quantitation limit is 10 ug/L, but a concentration of 1 ug/L is calculated, report it as J. The sample quantitation limit must be adjusted for both dilution and percent moisture as discussed for the U flag, so that if a sample with 24% moisture and a 1 to 10 dilution factor has a calculated concentration of 300 ug/L and a sample quantitation limit of 430 ug/kg, report the concentration as 300J on Form I.

- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS. Single component pesticides  $\geq 10$  ng/ul in the final extract shall be confirmed.

AR500134

- B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified TCL compound.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. This flag will not apply to pesticides/TCLs analyzed by GC/EC methods. If one or more compounds have a response greater than full scale, the sample or extract must be diluted and re-analyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate Forms I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number. NOTE: For total xylenes, where three isomers are quantified as two peaks, the calibration range of each peak should be considered separately, e.g., a diluted analysis is not required for total xylenes unless the concentration of either peak separately exceeds 200 ug/L.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- X - Other specific flags may be required to properly define the results. If used, they must be fully described and such description attached to the Sample Data Summary Package and the Case Narrative. Begin by using "X". If more than one flag is required, use "Y" and "Z", as needed. If more than five qualifiers are required for a sample result, use the "X" flag to combine several flags, as needed. For instance, the "X" flag might combine the "A", "B", and "D" flags for some sample.

The combination of flags "BU" or "UB" is expressly prohibited. Blank contaminants are flagged "B" only when they are also detected in the sample.

If analyses at two different dilution factors are required (see Exhibit D), follow the data reporting instructions given in Exhibit D and with the "D" and "E" flags above.

AR500135

# SELECT EPA STANDARDS

Compound	Maximum Contaminant Levels (ppb)		Health Advisories (ppb)
	Current	Proposed	
Antimony	-----	10/5	
Barium	1,000	2,000	
Arsenic	50	-----	
Copper	1,000	1,300	
Sodium	-----	-----	20,000
Zinc	5,000	-----	
Iron	300	-----	
Lead	50	5	
Boron	-----	-----	3150*, 620
Trichloroethene (TCE)	5	-----	318*

\* Removal Action Level

AR500136

## EPA REGION III

### BORON FACT SHEET

#### What is Boron?

Boron is an element which may occur naturally in the form of borax or boric acid. Pure boron is a solid material ranging from reddish-brown to black under normal conditions. It does not occur in nature.

#### Sources of Boron:

Boron compounds are commonly found in most rocks and soils. Therefore, measurable amounts of boron often occur naturally in surface waters (i.e. lakes and streams) and in ground water. Boron may also be introduced to natural water systems as the result of human activity. Waste flows from mineral and coal refining operations bear whatever boron is contained in the parent rock. Additionally, poorly managed municipal sludge or industrial waste disposal practices can release boron to ground and surface waters. Boron is a component of a great many industrial processes including glass manufacture, metal production, and wood and leather preserving.

The primary source of boron available for human intake appears to be food products. Since the levels of boron found in drinking water are relatively low compared to those found in food, the contribution of drinking water to dietary boron intake is considered insignificant in most cases.

#### Health Effects of Boron:

Boron is not associated with a high level of toxicity. However, there is ample evidence showing that short-term ingestion of high levels of boron can result in nausea, stressed liver and central nervous system functions, and even death. Full recovery from the non-lethal health effects of short-term exposure appears to be normal. Dermal exposure to boron and its compounds may result in irritation, however, no evidence exists showing any systemic effects resulting from adsorption through the skin.

Long term exposure to boron via ingestion has been linked to occurrence of seizures and neurological damage in human infants. In animal studies, chronic boron ingestion has been tentatively associated with damage to internal organs such as the kidney, spleen, liver and testes.

Currently, there is no scientific evidence to suggest that exposure to boron causes cancer. Therefore, EPA is basing its

AR500137

the toxicity of boron in drinking water on the occurrence of testicular atrophy in laboratory animals, the adverse health effect that occurs at the lowest dosage.

#### EPA Standards:

EPA has calculated a lifetime health advisory for boron in drinking water of 620 parts per billion (see below). The lifetime health advisory level represents the highest concentration of a contaminant in drinking water which is considered to be protective of human health over a lifetime of exposure. While a health advisory level is not an enforceable regulation, it is considered to be an applicable guideline for drinking water quality.

EPA has also calculated a removal action level for boron in drinking water at 3,150 parts per billion (see below). Removal action levels are used as criteria for the initiation of emergency removal actions. Such actions are intended to prevent exposure to high levels of contamination which could cause adverse health effects over a short period of time.

One part per billion (ppb) represents one part of contaminant, by weight, for every billion parts of water. One ppb is also equivalent to one microgram per liter (ug/l), which is another common method of notation used in water analysis. At the ppb level, most chemicals are not detectable by taste or smell. In order to comprehend the magnitude of one part per billion, consider that it is roughly equivalent to one second in 32 years.

#### What Can You Do ?

If you are concerned about boron in your drinking water, the first action you should take is to seek assistance from your state or local health officials. The health officials may advise you to have your water retested to verify the existing level of boron contamination. Depending on your sample results, you may wish to consider treating your water to remove boron. Various treatment processes are available that can be installed at the point where water enters your home (Point-of-Entry) or at the faucet (Point-of-Use).

For more information on home treatment devices, write for Region III's free drinking water information guide titled "Home Water Treatment Units" at:

Environmental Protection Agency  
Region III  
Drinking Water Section (3WM41)  
841 Chestnut Street  
Philadelphia, PA 19107.

AR500138  
10/28/91



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
841 Chestnut Building  
Philadelphia, Pennsylvania 19107

Office of Superfund  
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257  
Mail Code 3HW21

November 5, 1991

[REDACTED]  
2015 Creek Way  
Lansdale, Pennsylvania 19446

Re: Analysis of the Home Well Located at 604 Quarry Road  
during the Remedial Investigation of the Salford Quarry Site

[REDACTED]  
Samples from your home well located at 604 Quarry Road, Harleysville, Pennsylvania, were collected on July 18, September 5, and September 10-17, 1991 and subjected to laboratory analyses. The preliminary results from these analyses were reviewed and the following evaluation is offered.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

The contaminant listed below was detected in your well at levels of concern (please refer to the enclosed Fact Sheet):

CONTAMINANT

CONCENTRATION RANGE

Boron

14,200 - 18,300 parts per billion

According to currently acceptable EPA standards, the other substances detected in your well (please refer to the enclosed Sample Result Reports) pose no threat to consumers. These constituents were either present in your well at concentrations below EPA's drinking water standards or they elicit less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

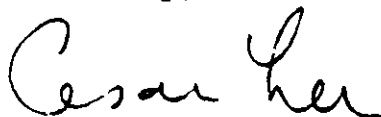
AR500139

2-10-88  
10

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. Superfund includes two main components. These are called removal and remedial actions. Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,



Cesar Lee (3HW21)  
Remedial Project Manager  
SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports  
Summary of Select EPA Standards  
Boron Fact Sheet

cc: Bill Foster, Drinking Water Contact

AR500140

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

TPA SAMPLE NO.

69688

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 69683

Matrix: (soil/water) WATER

Lab Sample ID:

DRAFT

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: E4422

Level: (low/med) LOW

Date Received: 7/18/91

Moisture: not dec. 100.

Date Analyzed: 7/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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30.				

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

63688

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 63683

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: E4422

Level: (low/med) LOW

Date Received: 7/18/91

% Moisture: not dec. 100.

Date Analyzed: 7/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

DRAFT

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L g

74-87-3	-----Chloromethane	10.	IU
74-83-9	-----Bromomethane	10.	IU
75-01-4	-----Vinyl Chloride	10.	IU
75-00-3	-----Chloroethane	10.	IU
75-09-2	-----Methylene Chloride	5.	IU
67-64-1	-----Acetone	10.	IU
75-15-0	-----Carbon Disulfide	5.	IU
75-35-4	-----1,1-Dichloroethene	5.	IU
75-34-3	-----1,1-Dichloroethane	5.	IU
540-59-0	-----1,2-Dichloroethene (total)	5.	IU
67-66-3	-----Chloroform	5.	IU
107-06-2	-----1,2-Dichloroethane	5.	IU
78-93-3	-----2-Butanone	10.	IU
71-55-6	-----1,1,1-Trichloroethane	5.	IU
56-23-5	-----Carbon Tetrachloride	5.	IU
108-05-4	-----Vinyl Acetate	10.	IU
75-27-4	-----Bromodichloromethane	5.	IU
78-87-5	-----1,2-Dichloropropane	5.	IU
10061-01-5	-----cis-1,3-Dichloropropene	5.	IU
79-01-6	-----Trichloroethene	5.	IU
124-48-1	-----Dibromochloromethane	5.	IU
79-00-5	-----1,1,2-Trichloroethane	5.	IU
71-43-2	-----Benzene	5.	IU
10061-02-6	-----Trans-1,3-Dichloropropene	5.	IU
75-25-2	-----Bromoform	5.	IU
108-10-1	-----4-Methyl-2-Pentanone	10.	IU
591-78-6	-----2-Hexanone	10.	IU
127-18-4	-----Tetrachloroethene	5.	IU
79-34-5	-----1,1,2,2-Tetrachloroethane	5.	IU
108-88-3	-----Toluene	5.	IU
108-90-7	-----Chlorobenzene	5.	IU
100-41-4	-----Ethylbenzene	5.	IU
100-42-5	-----Styrene	5.	IU
1330-20-7	-----Xylene (total)	5.	IU

AR500142

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

PA SAMPLE NO.

69688

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 69683

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: A9217

Level: (low/med) LOW

Date Received: 7/18/91

% Moisture: not dec. 100. dec. 0.

Date Extracted: 7/19/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N

pH: .0

Dilution Factor: 1.00

DRAFT

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L Q

99-09-2-----	3-Nitroaniline	50.	1U
83-32-9-----	Acenaphthene	10.	1U
51-28-5-----	2,4-Dinitrophenol	50.	1U
100-02-7-----	4-Nitrophenol	50.	1U
132-64-9-----	Dibenzofuran	10.	1U
121-14-2-----	2,4-Dinitrotoluene	10.	1U
84-66-2-----	Diethylphthalate	10.	1U
7005-72-3-----	4-Chlorophenyl-phenylether	10.	1U
86-73-7-----	Fluorene	10.	1U
100-01-6-----	4-Nitroaniline	50.	1U
534-52-1-----	4,6-Dinitro-2-methylphenol	50.	1U
86-30-6-----	N-Nitrosodiphenylamine (1)	10.	1U
101-55-3-----	4-Bromophenyl-phenylether	10.	1U
118-74-1-----	Hexachlorobenzene	10.	1U
87-86-5-----	Pentachlorophenol	50.	1U
85-01-8-----	Phenanthrene	10.	1U
120-12-7-----	Anthracene	10.	1U
84-74-2-----	Di-n-butylphthalate	10.	1U
206-44-0-----	Fluoranthene	10.	1U
129-00-0-----	Pyrene	10.	1U
85-68-7-----	Butylbenzylphthalate	10.	1U
91-94-1-----	3,3'-Dichlorobenzidine	20.	1U
56-55-3-----	Benzo(a)anthracene	10.	1U
218-01-9-----	Chrysene	10.	1U
117-81-7-----	bis(2-Ethylhexyl)phthalate	10.	1U
117-84-0-----	Di-n-octylphthalate	10.	1U
205-99-2-----	Benzo(b)fluoranthene	10.	1U
207-08-9-----	Benzo(k)fluoranthene	10.	1U
50-32-8-----	Benzo(a)pyrene	10.	1U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10.	1U
53-70-3-----	Dibenz(a,h)anthracene	10.	1U
191-24-2-----	Benzo(g,h,i)perylene	10.	1U

(1) - Cannot be separated from diphenylamine

AR500143

18  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

69688

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 69683

Matrix: (soil/water) WATER

Lab Sample ID:

DRAFT

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: A9217

Level: (low/med) LOW

Date Received: 7/18/91

% Moisture: not dec. 100. dec. 0.

Date Extracted: 7/19/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N

pH: .0

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10.	1U
111-44-4	bis(2-Chloroethyl)ether	10.	1U
95-57-8	2-Chlorophenol	10.	1U
541-73-1	1,3-Dichlorobenzene	10.	1U
106-46-7	1,4-Dichlorobenzene	10.	1U
100-51-6	Benzyl alcohol	10.	1U
95-50-1	1,2-Dichlorobenzene	10.	1U
95-48-7	2-Methylphenol	10.	1U
39638-32-9	bis(2-Chloroisopropyl)ether	10.	1U
106-44-5	4-Methylphenol	10.	1U
621-64-7	N-Nitroso-di-n-propylamine	10.	1U
67-72-1	Hexachloroethane	10.	1U
98-95-3	Nitrobenzene	10.	1U
78-59-1	Isophorone	10.	1U
88-75-5	2-Nitrophenol	10.	1U
105-67-9	2,4-Dimethylphenol	10.	1U
65-85-0	Benzoic acid	50.	1U
111-91-1	bis(2-Chloroethoxy)methane	10.	1U
120-83-2	2,4-Dichlorophenol	10.	1U
120-82-1	1,2,4-Trichlorobenzene	10.	1U
91-20-3	Naphthalene	10.	1U
106-47-8	4-Chloroaniline	10.	1U
87-68-3	Hexachlorobutadiene	10.	1U
59-50-7	4-Chloro-3-methylphenol	10.	1U
91-57-6	2-Methylnaphthalene	10.	1U
77-47-4	Hexachlorocyclopentadiene	10.	1U
88-06-2	2,4,6-Trichlorophenol	10.	1U
95-95-4	2,4,5-Trichlorophenol	50.	1U
91-58-7	2-Chloronaphthalene	10.	1U
88-74-4	2-Nitroaniline	50.	1U
131-11-3	Dimethylphthalate	10.	1U
208-96-8	Acenaphthylene	10.	1U
606-20-2	2,6-Dinitrotoluene	10.	1U

AR500144

DRAFT

 1D  
 PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE 5001453

D015GW01

Lab Name: CAMBRG Contract: ENVIRON  
 Lab Code: CAMBRG Case No.: FD414B SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) WATER Lab Sample ID: 0565-12613  
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: \_\_\_\_\_  
 Level: (low/med) LOW Date Received: 07/18/91  
 % Moisture: not dec. \_\_\_\_\_ dec. \_\_\_\_\_ Date Extracted: 07/23/91  
 Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/03/91  
 GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO. COMPOUND CONCENTRATION UNITS:  
 (ug/L or ug/Kg) UG/L g

319-84-6	alpha-BHC	0.0501U
319-85-7	beta-BHC	0.0501U
319-86-8	delta-BHC	0.0501U
58-89-9	Lindane	0.0501U
76-44-8	Heptachlor	0.0501U
309-00-2	Aldrin	0.0501U
1024-57-3	Heptachlor epoxide	0.0501U
959-98-8	Endosulfan I	0.0501U
60-57-1	Dieldrin	0.101U
72-55-9	4,4'-DDE	0.101U
72-20-8	Endrin	0.101U
33213-65-9	Endosulfan II	0.101U
72-54-8	4,4'-DDD	0.101U
1031-07-8	Endosulfan sulfate	0.101U
50-29-3	4,4'-DDT	0.101U
72-43-5	Methoxychlor	0.501U
53494-70-5	Endrin ketone	0.101U
5103-71-9	alpha-Chlordane	0.501U
5103-74-2	gamma-Chlordane	0.501U
8001-35-2	Toxaphene	1.01U
12674-11-2	Aroclor-1016	0.501U
11104-28-2	Aroclor-1221	0.501U
11141-16-5	Aroclor-1232	0.501U
53469-21-9	Aroclor-1242	0.501U
12672-29-6	Aroclor-1248	0.501U
11097-69-1	Aroclor-1254	1.01U
11096-82-5	Aroclor-1260	1.01U

AR500145

NET

SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

69688

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 69683

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: A9217

Level: (low/med) LOW

Date Received: 7/18/91

% Moisture: not dec. 100. dec. 0.

Date Extracted: 7/19/91

Extraction: (SepF/Cont/Sonic) CONT

Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N

pH: .0

Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

DRAFT

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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30.				

AR500146



ORIGINAL

U.S. EPA - CLP

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

D015GW02

Lab Name: ETC CORP.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: M7442

Matrix (soil/water): WATER

Lab Sample ID: CA8561

Level (low/med): LOW

Date Received: 09/13/91

% Solids: 0

DRAFT

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	2.00	U		P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-4	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				
	Barium	15.700.0			P

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: \_\_\_\_\_

Comments:

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FORM I - IN

340

AR500147

DRAFT

U.S. EPA - CLP

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

69688

Lab Name: NET ATLANTIC THOROFARE DI Contract:

Lab Code: NET

Case No.:

SAS No.: SALFORD SDG No.: 69683

Matrix (soil/water): WATER

Lab Sample ID: 23180-06S

Level (low/med): LOW

Date Received: 07/18/91

Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	30.00	U		P
7440-36-0	Antimony	20.00	B		P
7440-38-2	Arsenic	2.00	U	W	F
7440-39-3	Barium	68.00	B		P
7440-41-7	Beryllium	2.00	U		P
7440-41-7	Cadmium	2.00	U		P
7440-70-2	Calcium	45600.00			P
7440-47-3	Chromium	3.00	U		P
7440-48-4	Cobalt	5.00	U		P
7440-50-8	Copper	15.00	B		P
7439-89-6	Iron	11.00	U		P
7439-92-1	Lead	3.00	U		F
7439-95-4	Magnesium	17600.00			P
7439-96-5	Manganese	2.00	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	6.00	U		P
7440-09-7	Potassium	1290.00	B		P
7782-49-2	Selenium	3.00	U		F
7440-22-4	Silver	4.00	U		P
7440-23-5	Sodium	25800.00			P
7440-28-0	Thallium	3.00	U	W	F
7440-62-2	Vanadium	4.00	U		P
7440-66-6	Zinc	20.00			P
	Boron	17100.00			P
	Cyanide	10.00	U		C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

AR500148

826B-DO15-GW01

## BIOSPHERICS<sup>®</sup> INCORPORATED

### THE ASBESTOS IN WATER ANALYSIS RESULTS

Client: U.S. Environmental Protection Agency

Site Order #: 9107129-07

Project ID: SAS# 6330-C-01

Client ID: 6330-C-7

DRAFT

Volume Sampled (ml) 1000  
Volume Filtered (ml) 250  
Filter Type MCE  
Filter Area (mm<sup>2</sup>) 962  
Filter Pore Size (um) 0.45  
Average Grid Opening Area (mm<sup>2</sup>) 0.0115  
# Grid Openings Analyzed 20  
Total Grid Area Analyzed (mm<sup>2</sup>) 0.2300  
Grid Lot # 10422

Detection Limit (MFL) 0.02  
Total Number of Asbestos Fibers (MFL) N/A  
    Chrysotile Fibers (MFL) N/A  
    Amphibole Fibers (MFL) N/A  
Fiber Length Distribution (microns) N/A  
Fiber Width Distribution (microns) N/A  
Aspect Ratio Distribution N/A  
Mean Mass per Fiber (ug) N/A  
Mass Concentration (ug/L) N/A

Comments: No asbestos fibers detected.

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AR500149



# princeton testing laboratory inc.

P.O. Box 3108  
3490 U.S. Route 1  
Princeton, NJ 08543-3108  
(609) 452-9050  
FAX (609) 452-0347

Roy F. Weston, Inc.  
5 Underwood Court  
Delran, New Jersey 08075  
Attention: Marian Murphy

Report Date: 09/11/91  
Job Number: 9106225-001GW  
Date Received: 09/06/91

**Analyses****Sample I.D.: B1 Matthews Well B2 McKnight Well B3 Johnson Well**


Boron, mg/l	17.8	14.2	18.3
Lead by GFAA, mg/l	<.005	<.005	<.005

~ 3x actual level

**Analyses****Sample I.D.: B4 Baker Well**

Boron, mg/l	<.05
Lead by GFAA, mg/l	<.005

## DRAFT

  
John A. Allene, V.P., Manager  
Water, Wastewater, and Microbiology

For inquiries call us at (609) 452-9050 and ask for our Customer Service Department

AR500150

Member: American Council of Independent Laboratories, Inc.

DATA SUMMARY FORM: INORGANICS

Site Name: Silver Quarry  
use 1.6571C sampling date(s): 7-19-91

WATER SAMPLES  
(µg/L)

DRAFT

\*Due to dilution, sample quantitation limit is affected.  
See dilution table for specifics.

500151

Sample No.  
Collection Factor  
Location

151692  
ID  
Mettler

CON  
ANALYTE

200	Aluminum	[29.3]	
20	Antimony		
10	Arsenic		
200	Boron	[69.3]	
5	Beryllium		
5	Bismuth		
5000	Cadmium	50900	
10	Cobalt	11.6	J
25	Copper	[11.3]	
100	Iron	[78.9]	8
5	Lead	7.1	8
5000	Magnesium	19700	
15	Manganese		
0.5	Mercury		
4	Nickel	[10]	
5000	Potassium	[150]	
5	Selenium		UL
10	Silver		
5000	Sodium	28000	
10	Thallium		
50	Vanadium	[2.1]	
20	Zinc	[124]	
10	Cyanide		9
2	Barium	[8300]	J

REL - Contract Required Detection Limit

\*Action Level Exceeds

SEE NARRATIVE FOR CONC DEFINITIONS  
revised 07/90

**WESTERN**

**TABLE 2**

**GLOSSARY OF DATA QUALIFIER CODES (INORGANIC)**

**CODES RELATED TO IDENTIFICATION**

(confidence concerning presence or absence of analytes):

U = Not detected. The associated number indicates approximate sample concentration necessary to be detected.

(NO CODE) = Confirmed identification.

B = Not detected substantially above the level reported in laboratory or field blanks.

R = Unreliable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.

**CODES RELATED TO QUANTITATION**

(can be used for both positive results and sample quantitation limits):

J = Analyte Present. Reported value may not be accurate or precise.

K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.

L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.

[ ] = Analyte present. As values approach the IDL the quantitation may not be accurate.

UJ = Not detected, quantitation limit may be inaccurate or imprecise.

UL = Not detected, quantitation limit is probably higher.

**OTHER CODES**

Q = No analytical result.

AR500152

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
841 Chestnut Building  
Philadelphia, Pennsylvania 19107

Office of Superfund  
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257  
Mail Code 3HW21

November 5, 1991

215 Shady Nook Hill Road  
Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the  
Remedial Investigation of the Salford Quarry Site

Dear

Samples from your home well were collected on July 18, and September 10-17, 1991 and subjected to laboratory analyses. The preliminary results from these analyses were reviewed and the following evaluation is offered.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

The contaminants listed below were detected in your well at levels of concern (please refer to the enclosed Fact Sheet):

<u>CONTAMINANT</u>	<u>CONCENTRATION RANGE</u>
Boron	12,700 - 24,700 parts per billion

According to currently acceptable EPA standards, the other substances detected in your well (please refer to the enclosed Sample Result Reports) pose no threat to consumers. These constituents were either present in your well at concentrations below EPA's drinking water standards or they elicit less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund.

AR 500153

Superfund includes two main components. These are called removal and remedial actions. Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,



Cesar Lee (3HW21)  
Remedial Project Manager  
SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports  
Summary of Select EPA Standards  
Boron Fact Sheet

cc: Bill Foster, Drinking Water Contact

AR500154



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

69755

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 69797

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: E4426

Level: (low/med) LOW

Date Received: 7/19/91

% Moisture: not dec. 100.

Date Analyzed: 7/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

DRAFT

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L Q

74-87-3	Chloromethane	10.	IU
74-83-9	Bromomethane	10.	IU
75-01-4	Vinyl Chloride	10.	IU
75-00-3	Chloroethane	10.	IU
75-09-2	Methylene Chloride	5.	IU
67-64-1	Acetone	10.	IU
75-15-0	Carbon Disulfide	5.	IU
75-35-4	1,1-Dichloroethane	5.	IU
75-34-3	1,1-Dichloroethane	5.	IU
540-59-0	1,2-Dichloroethane (total)	5.	IU
67-66-3	Chloroform	5.	IU
107-06-2	1,2-Dichloroethane	5.	IU
78-93-3	2-Butanone	10.	IU
71-55-6	1,1,1-Trichloroethane	5.	IU
56-23-5	Carbon Tetrachloride	5.	IU
108-05-4	Vinyl Acetate	10.	IU
75-27-4	Bromodichloromethane	5.	IU
78-87-5	1,2-Dichloropropane	5.	IU
10061-01-5	cis-1,3-Dichloropropene	5.	IU
79-01-6	Trichloroethene	5.	IU
124-48-1	Dibromochloromethane	5.	IU
79-00-5	1,1,2-Trichloroethane	5.	IU
71-43-2	Benzene	5.	IU
10061-02-6	Trans-1,3-Dichloropropene	5.	IU
75-25-2	Bromoform	5.	IU
108-10-1	4-Methyl-2-Pentanone	10.	IU
591-78-6	2-Hexanone	10.	IU
127-18-4	Tetrachloroethene	5.	IU
79-34-5	1,1,2,2-Tetrachloroethane	5.	IU
108-88-3	Toluene	5.	IU
108-90-7	Chlorobenzene	5.	IU
100-41-4	Ethylbenzene	5.	IU
100-42-5	Styrene	5.	IU
1330-20-7	Xylene (total)	5.	IU

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

1A SAMPLE NO.

69755

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 69797

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: E4426

Level: (low/med) LOW

Date Received: 7/19/91

Moisture: not dec. 100.

Date Analyzed: 7/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

DRAFT

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
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27.				
28.				
29.				
30.				

13  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

69755

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SOS No.: 69797

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: F5759

Level: (low/med) LOW

Date Received: 7/19/91

% Moisture: not dec. 100. dec. 0.

Date Extracted: 7/23/91

Extraction: (SepF/Cont/Some) CONT

Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N

pH: .0

Dilution Factor: 1.00

DRAFT

CAS NO.                      COMPOUND                      CONCENTRATION UNITS:  
(ug/L or ug/Kg) ug/L                      0

108-95-2	Phenol	10.	IU
111-44-4	bis(2-Chloroethyl)ether	10.	IU
95-57-8	2-Chlorophenol	10.	IU
541-73-1	1,3-Dichlorobenzene	10.	IU
106-46-7	1,4-Dichlorobenzene	10.	IU
100-51-6	Benzyl alcohol	10.	IU
95-58-1	1,2-Dichlorobenzene	10.	IU
95-48-7	2-Methylphenol	10.	IU
39638-32-9	bis(2-Chloroisopropyl)ether	10.	IU
106-44-5	4-Methylphenol	10.	IU
621-64-7	N-Nitroso-di-n-propylamine	10.	IU
67-72-1	Hexachloroethane	10.	IU
94-95-3	Nitrobenzene	10.	IU
78-59-1	Isophorone	10.	IU
88-75-5	2-Nitrophenol	10.	IU
105-67-9	2,4-Dimethylphenol	10.	IU
65-85-8	Benzoic acid	50.	IU
111-91-1	bis(2-Chloroethoxy)methane	10.	IU
120-83-2	2,4-Dichlorophenol	10.	IU
120-82-1	1,2,4-Trichlorobenzene	10.	IU
91-20-3	Naphthalene	10.	IU
106-47-8	4-Chloroaniline	10.	IU
87-68-3	Hexachlorobutadiene	10.	IU
59-50-7	4-Chloro-2-methylphenol	10.	IU
91-57-6	2-Methylnaphthalene	10.	IU
77-47-4	Hexachlorocyclopentadiene	10.	IU
88-06-2	2,4,6-Trichlorophenol	10.	IU
95-95-4	2,4,5-Trichlorophenol	50.	IU
91-58-7	2-Chloronaphthalene	10.	IU
88-74-4	2-Nitroaniline	50.	IU
131-11-3	Dimethylphthalate	10.	IU
200-96-8	Acenaphthylene	10.	IU
606-23-2	2,6-Dinitrotoluene	10.	IU

AR500157

IF  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

69755

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDB No.: 59797

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: F5759

Level: (low/med) LOW

Date Received: 7/19/91

% Moisture: not dec. 100. dec. 0.

Date Extracted: 7/23/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N pH: .0

Dilution Factor: 1.00

DRAFT

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) US/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
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6.				
7.				
8.				
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30.				

AR500158

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

69755

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No. 1

SDB No.: 69797

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: F5759

Level: (low/med) LOW

Date Received: 7/19/91

% Moisture: not dec. 100. dec. 0.

Date Extracted: 7/23/91

Extraction: (Sep/Cont/Spec) CONT

Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N pH: .8

Dilution Factor: 1.00

DRAFT

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) LB/L	2
99-09-2	3-Nitroaniline	50.	IU
83-32-9	Acenaphthene	10.	IU
51-28-5	2,4-Dinitrophenol	50.	IU
100-82-7	4-Nitrophenol	50.	IU
132-84-9	Dibenzofuran	10.	IU
121-14-0	2,4-Dinitrotoluene	10.	IU
84-56-2	Diethylphthalate	10.	IU
7005-72-3	4-Chlorophenyl-phenylether	10.	IU
86-73-7	Fluorene	10.	IU
100-01-6	4-Nitroaniline	50.	IU
534-52-1	4,6-Dinitro-2-methylphenol	50.	IU
86-30-6	N-Nitrosodiphenylamine (1)	10.	IU
101-55-3	4-Bromophenyl-phenylether	10.	IU
118-74-1	Hexachlorobenzene	10.	IU
87-86-5	Pentachlorophenol	50.	IU
85-01-8	Phenanthrene	10.	IU
120-12-7	Anthracene	10.	IU
84-74-2	Di-n-butylphthalate	10.	IU
206-44-0	Fluoranthene	10.	IU
129-00-0	Pyrene	10.	IU
85-68-7	Butylbenzylphthalate	10.	IU
91-94-1	3,3'-Dichlorobenzidine	20.	IU
56-55-3	Benzo(a)anthracene	10.	IU
218-01-9	Chrysene	10.	IU
117-81-7	bis(2-Ethylhexyl)phthalate	10.	IU
117-84-0	Di-n-octylphthalate	10.	IU
205-99-2	Benzo(b)fluoranthene	10.	IU
207-08-9	Benzo(k)fluoranthene	10.	IU
50-32-8	Benzo(a)pyrene	10.	IU
193-39-5	Indeno(1,2,3-cd)pyrene	10.	IU
53-70-3	Dibenz(a,h)anthracene	10.	IU
191-84-2	Benzo(g,h,i)perylene	10.	IU

(1) - Cannot be separated from diphenylamine

AR500159

DRAFT

50018  
EPA SAMPLE NO.ID  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: CAMBRG Contract: ENVIRON DO18GW01

Lab Code: CAMBRG Case No.: FD414B SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 0565-12620

Sample wt/vol: 1000 (g/mL) ML Lab File ID: \_\_\_\_\_

Level: (low/med) LOW Date Received: 07/19/91

% Moisture: not dec. \_\_\_\_\_ dec. \_\_\_\_\_ Date Extracted: 07/23/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/04/91

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L g

319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	Lindane	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

AR500160

## U.S. EPA - CLP

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

69755

Lab Name: NET ATLANTIC THOROFARE DI Contract:

Lab Code: NET

Case No.:

SAS No.: SALFORD SDG No.: 69683

Matrix (soil/water): WATER

Lab Sample ID: 23180-13S

Level (low/med): LOW

Date Received: 07/19/91

Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

DRAFT

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	30.00	U		P
7440-36-0	Antimony	27.00	B		P
7440-38-2	Arsenic	3.00	B		P
7440-39-3	Barium	218.00			P
7440-41-7	Beryllium	2.00	U		P
7440-41-7	Cadmium	2.00	U		P
7440-70-2	Calcium	42900.00			P
7440-47-3	Chromium	3.00	U		P
7440-48-4	Cobalt	5.00	U		P
7440-50-8	Copper	17.00	B		P
7439-89-6	Iron	11.00	U		P
7439-92-1	Lead	3.00	U		P
7439-95-4	Magnesium	18600.00			P
7439-96-5	Manganese	2.00	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	6.00	U		P
7440-09-7	Potassium	1080.00	B		P
7782-49-2	Selenium	3.00	U		P
7440-22-4	Silver	4.00	U		P
7440-23-5	Sodium	21300.00			P
7440-28-0	Thallium	3.00	U		P
7440-62-2	Vanadium	4.00	U		P
7440-66-6	Zinc	26.00			P
	Boron	12700.00			P
	Cyanide	10.00	U		C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

826B-D018-GW01

AR500161

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

D018GW02

Lab Name: ETC CORP.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: M7442

Matrix (soil/water): WATER

Lab Sample ID: CA8578

Level (low/med): LOW

Date Received: 09/13/91

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	2.00	U		P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-4	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				
	Boron	24700.0			P

DRAFT

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: \_\_\_\_\_

Comments:



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
841 Chestnut Building  
Philadelphia, Pennsylvania 19107

Office of Superfund  
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257  
Mail Code 3HW21

November 5, 1991

[REDACTED]  
235 Fawn Drive  
Harleysville, Pennsylvania 19438

Re: Analysis of the [REDACTED] Home Well during the  
Remedial Investigation of the Salford Quarry Site

Dear [REDACTED]

A sample from your home well was collected during the period of September 10-17, 1991 and subjected to laboratory analyses. The preliminary results from these analyses were reviewed and the following evaluation is offered.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

The contaminant listed below was detected in your well at levels of concern (please refer to the enclosed Fact Sheet):

CONTAMINANT

CONCENTRATION

Boron

4,380 parts per billion

It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. The other substance which was analyzed for, lead, was not detected in your well (please refer to the enclosed Sample Result Reports).

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund.

AR500163

Superfund includes two main components. These are called removal and remedial actions. Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,



Cesar Lee (3HW21)  
Remedial Project Manager  
SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports  
Summary of Select EPA Standards  
Boron Fact Sheet

cc: Bill Foster, Drinking Water Contact

AR500164

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

D028GW01

Lab Name: ETC CORP.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: M7442

Matrix (soil/water): WATER

Lab Sample ID: CA8557

Level (low/med): LOW

Date Received: 09/13/91

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

DRAFT

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	2.00	U		F
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-4	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				
	Barium	4380.0			P

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: \_\_\_\_\_

Comments:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
841 Chestnut Building  
Philadelphia, Pennsylvania 19107

Office of Superfund  
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257  
Mail Code 3HW21

November 5, 1991

730 Cressman Road  
Harleysville, Pennsylvania 19438

Re: Analysis of the [REDACTED] Home Well during the  
Remedial Investigation of the Salford Quarry Site

Dear :

A sample from your home well was collected during the period of September 10-17, 1991 and subjected to laboratory analyses. The preliminary results from these analyses were reviewed and the following evaluation is offered.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

The contaminant listed below was detected in your well at levels of concern (please refer to the enclosed Fact Sheet):

CONTAMINANT

CONCENTRATION

Boron

2,340 parts per billion

It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. The other substance which was analyzed for, lead, was not detected in your well (please refer to the enclosed Sample Result Reports).

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund.

AR500166

Superfund includes two main components. These are called removal and remedial actions. Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,



Cesar Lee (3HW21)  
Remedial Project Manager  
SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports  
Summary of Select EPA Standards  
Boron Fact Sheet

cc: Bill Foster, Drinking Water Contact

AR500167

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

D029GW01

Lab Name: ETC CORP.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: M7442

Matrix (soil/water): WATER

Lab Sample ID: CA8556

Level (low/med): LOW

Date Received: 09/13/91

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-3	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	2.00	U		P
7439-95-4	Magnesium				
7439-96-3	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-4	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				
	Barium	2340.0			P

DRAFT

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: \_\_\_\_\_

Comments:

FORM I - IN

3/70

AR500168  
21

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
841 Chestnut Building  
Philadelphia, Pennsylvania 19107

Office of Superfund  
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257  
Mail Code 3HW21

November 5, 1991

203 Shady Nook Hill Road  
Harleysville, Pennsylvania 19438

Re: Analysis of the [REDACTED] Home Well during the  
Remedial Investigation of the Salford Quarry Site

Dear

Samples from your home well were collected during the period of September 10-17, 1991 and subjected to laboratory analyses. The preliminary results from these analyses were reviewed and neither of the contaminants which were analyzed for, boron and lead, were detected in your well at levels of concern.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

According to currently acceptable EPA standards, the substances detected in your well (please refer to the enclosed Sample Result Reports) pose no threat to consumers. These constituents were either present in your well at concentrations below EPA's drinking water standards or they elicit less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. Superfund includes two main components. These are called removal and remedial actions.

AR500169

Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,



Cesar Lee (3HW21)  
Remedial Project Manager  
SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports  
Summary of Select EPA Standards  
Boron Fact Sheet

cc: Bill Foster, Drinking Water Contact

AR500170



1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

D027GW01

Lab Name: ETC CORP.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: M7442

Matrix (soil/water): WATER

Lab Sample ID: CA8581

Level (low/med): LOW

Date Received: 09/13/91

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	2.00	U		F
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-4	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				
	Barium	250.00			F

DRAFT

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: \_\_\_\_\_

Comments:

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AR500171

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

D027GW11

Lab Name: ETC CORP.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: M7442

Matrix (soil/water): WATER

Lab Sample ID: CA8586

Level (low/med): LOW

Date Received: 09/13/91

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	2.00	U		P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-4	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				
	Barium	28000			P

DRAFT

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: \_\_\_\_\_

Comments:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
841 Chestnut Building  
Philadelphia, Pennsylvania 19107

Office of Superfund  
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257  
Mail Code 3HW21

November 5, 1991

750 Cressman Road  
Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the  
Remedial Investigation of the Salford Quarry Site

Dear

A sample from your home well was collected during the period of September 10-17, 1991 and subjected to laboratory analyses. The preliminary results from these analyses were reviewed and the following evaluation is offered.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

The contaminant listed below was detected in your well at levels of concern (please refer to the enclosed Fact Sheet):

CONTAMINANT

CONCENTRATION

Boron

1,000 parts per billion

It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. The other substance which was analyzed for, lead, was not detected.

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. Superfund includes two main components. These are called removal and remedial actions.

AR500173

Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,



Cesar Lee (3HW21)  
Remedial Project Manager  
SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports  
Summary of Select EPA Standards  
Boron Fact Sheet

cc: Bill Foster, Drinking Water Contact

AR500174

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETC CORP.

Contract:

D021GW01

Lab Code:

Case No.:

SAS No.:

SDG No.: M7442

Matrix (soil/water): WATER

Lab Sample ID: CA8572

Level (low/med): LOW

Date Received: 09/13/91

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

DRAFT

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	2.00	U	W	F
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-4	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				
	Barium	1000.0			F

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: \_\_\_\_\_

Comments:

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
841 Chestnut Building  
Philadelphia, Pennsylvania 19107

Office of Superfund  
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257  
Mail Code 3HW21

November 5, 1991

190 Fawn Drive  
Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the  
Remedial Investigation of the Salford Quarry Site

Dear M

A sample from your home well was collected during the period of September 10-17, 1991 and subjected to laboratory analyses. The preliminary results from these analyses were reviewed and neither of the contaminants which were analyzed for, boron and lead, were detected in your well at levels of concern.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. According to currently acceptable EPA standards, the substances detected in your well (please refer to the enclosed Sample Result Reports) pose no threat to consumers. These constituents were either present in your well at concentrations below EPA's drinking water standards or they elicit less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

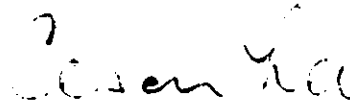
The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. Superfund includes two main components. These are called removal and remedial actions.

AR500176

Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,



Cesar Lee (3HW21)  
Remedial Project Manager  
SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports  
Summary of Select EPA Standards  
Boron Fact Sheet

cc: Bill Foster, Drinking Water Contact

AR500177

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETC CORP.

Lab Code:

Case No.:

Contract:

SAS No.:

D026GW01

SDG No.: M7444

Matrix (soil/water): WATER

Lab Sample ID: CA8587

Level (low/med): LOW

Date Received: 09/13/91

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	2.00	U		P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-4	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				
	Boron	100.00			P

DRAFT

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: \_\_\_\_\_

Comments:



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
841 Chestnut Building  
Philadelphia, Pennsylvania 19107

Office of Superfund  
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257  
Mail Code 3HW21

November 5, 1991

200 Fawn Drive  
Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the  
Remedial Investigation of the Salford Quarry Site

Dear

A sample from your home well was collected during the period of September 10-17, 1991 and subjected to laboratory analyses. The preliminary results from these analyses were reviewed and the following evaluation is offered.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

The contaminant listed below was detected in your well at levels of concern (please refer to the enclosed Fact Sheet):

CONTAMINANT

CONCENTRATION

Boron

13,500 parts per billion

It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. The other substance which was analyzed for, lead, was not detected in your well (please refer to the enclosed Sample Result Report).


The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund.

AR500179

Superfund includes two main components. These are called removal and remedial actions. Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,

A handwritten signature in cursive script that reads "Cesar Lee".

Cesar Lee (3HW21)  
Remedial Project Manager  
SE Pennsylvania Remedial Section

Enclosures: Sample Results Report  
Summary of Select EPA Standards  
Boron Fact Sheet

cc: Bill Foster, Drinking Water Contact

AR500180

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

D025GW01

Lab Name: ETC CORP.

Lab Code:

Case No.:

Contract:

SAS No.:

SDG No.: M7442

Matrix (soil/water): WATER

Lab Sample ID: CA8584

Level (low/med): LOW

Date Received: 09/13/91

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	2.00	U		F
7439-95-4	Magnesium				
7439-96-3	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-4	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				
	Barium	13500.0			P

DRAFT

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: \_\_\_\_\_

Comments:

FORM I - IN

3/90

AR500181<sup>17</sup>

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
841 Chestnut Building  
Philadelphia, Pennsylvania 19107

Office of Superfund  
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257  
Mail Code 3HW21

November 5, 1991

Mr  
201 Fawn Drive  
Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the  
Remedial Investigation of the Salford Quarry Site

Dear Mr.

A sample from your home well was collected during the period of September 10-17, 1991 and subjected to laboratory analyses. The preliminary results from these analyses were reviewed and the following evaluation is offered.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

The contaminant listed below was detected in your well at levels of concern (please refer to the enclosed Fact Sheet):

CONTAMINANT

CONCENTRATION

Lead

161 parts per billion

It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. According to currently acceptable EPA standards, the other substance which was analyzed for and detected in your well, boron, (please refer to the enclosed Sample Result Reports) pose no threat to consumers. This constituent was either present in your well at concentrations below EPA's drinking water standards or they elicit less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

AR500182

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. Superfund includes two main components. These are called removal and remedial actions. Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,

*Cesar Lee*

Cesar Lee (3HW21)  
Remedial Project Manager  
SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports  
Summary of Select EPA Standards  
Boron Fact Sheet  
Lead Fact Sheet

Drinking Water Contact

AR500183

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

D024GW01

Lab Name: ETC CORP.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: M7442

Matrix (soil/water): WATER

Lab Sample ID: CA8580

Level (low/med): LOW

Date Received: 09/13/91

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	161.00			P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-4	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				
	Barium	560.00			P

DRAFT

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: \_\_\_\_\_

Comments:

FORM I - IN

3/90

AR5001846

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
841 Chestnut Building  
Philadelphia, Pennsylvania 19107

Office of Superfund  
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257  
Mail Code 3HW21

November 5, 1991

M  
740 Cressman Road  
Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the  
Remedial Investigation of the Salford Quarry Site

Dear Mr. :

A sample from your home well was collected on July 18, 1991 and subjected to laboratory analyses. The preliminary results from these analyses were reviewed and neither of the substances which were analyzed for, boron and lead, were detected in your well at levels of concern.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. According to currently acceptable EPA standards, the substances detected in your well (please refer to the enclosed Sample Result Reports) pose no threat to consumers. These constituents were either present in your well at concentrations below EPA's drinking water standards or they elicit less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

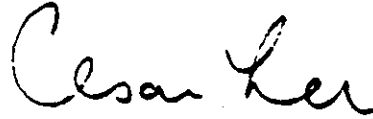
The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. Superfund includes two main components. These are called removal and remedial actions.

AR500185

Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,



Cesar Lee (3HW21)  
Remedial Project Manager  
SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports  
Summary of Select EPA Standards  
Boron Fact Sheet

cc: Bill Foster, Drinking Water Contact

AR500186



1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETC CORP.

Contract:

D022GW01

Lab Code:

Case No.:

SAS No.:

SDG No.: M7442

Matrix (soil/water): WATER

Lab Sample ID: CA8575

Level (low/med): LOW

Date Received: 09/13/91

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

DRAFT

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	3.91			F
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-4	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				
	Baron	6100			F

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: \_\_\_\_\_

Comments:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
841 Chestnut Building  
Philadelphia, Pennsylvania 19107

Office of Superfund  
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257  
Mail Code 3HW21

November 5, 1991

230 Fawn Drive  
Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the  
Remedial Investigation of the Salford Quarry Site

Dear

A sample from your home well was collected during the period of September 10-17, 1991 and subjected to laboratory analyses. The preliminary results from these analyses were reviewed and the following evaluation is offered.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

The contaminant listed below was detected in your well at levels of concern (please refer to the enclosed Fact Sheet):

CONTAMINANT

CONCENTRATION

Boron

5,020 parts per billion

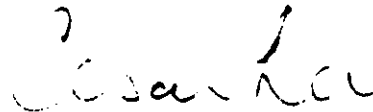
It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. According to currently acceptable EPA standards, the other substance which was analyzed for and detected in your well, lead, (please refer to the enclosed Sample Result Reports) pose no threat to consumers. This constituent was either present in your well at concentrations below EPA's drinking water standards or they elicit less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

AR500188

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. Superfund includes two main components. These are called removal and remedial actions. Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,



Cesar Lee (3HW21)  
Remedial Project Manager  
SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports  
Summary of Select EPA Standards  
Boron Fact Sheet

cc: Bill Foster, Drinking Water Contact

AR500189

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

D023GW01

Lab Name: ETC CORP.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: M7442

Matrix (soil/water): WATER

Lab Sample ID: CA8574

Level (low/med): LOW

Date Received: 09/13/91

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-3	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	4.24			F
7439-95-4	Magnesium				
7439-96-3	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-4	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				
	Barium	5020.0			F

DRAFT

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: \_\_\_\_\_

Comments:

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
841 Chestnut Building  
Philadelphia, Pennsylvania 19107

Office of Superfund  
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257  
Mail Code 3HW21

November 5, 1991

Mr.  
220 Park View Court  
Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the  
Remedial Investigation of the Salford Quarry Site

Dear Mr. :

A sample from your home well was collected on July 18, 1991 and subjected to laboratory analyses. The preliminary results from these analyses were reviewed and no contaminants were detected in your well at levels of concern.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. According to currently acceptable EPA standards, the substances detected in your well (please refer to the enclosed Sample Result Reports) pose no threat to consumers. These constituents were either present in your well at concentrations below EPA's drinking water standards or they elicit less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. Superfund includes two main components. These are called removal and remedial actions.

AR500191

Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences.

Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,



Cesar Lee (3HW21)  
Remedial Project Manager  
SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports  
Summary of Select EPA Standards  
Boron Fact Sheet

cc: Bill Foster, Drinking Water Contact

AR500192

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: NET

Contract:

69687

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 69683

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: E4421

Level: (low/med) LOW

Date Received: 7/18/91

% Moisture: not dec. 100.

Date Analyzed: 7/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

DRAFT

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

Q

74-87-3	-----Chloromethane	10.	IU
74-83-9	-----Bromomethane	10.	IU
75-01-4	-----Vinyl Chloride	10.	IU
75-00-3	-----Chloroethane	10.	IU
75-09-2	-----Methylene Chloride	5.	IU
67-64-1	-----Acetone	10.	IU
75-15-0	-----Carbon Disulfide	5.	IU
75-35-4	-----1,1-Dichloroethene	5.	IU
75-34-3	-----1,1-Dichloroethane	5.	IU
540-59-0	-----1,2-Dichloroethene (total)	5.	IU
67-66-3	-----Chloroform	5.	IU
107-06-2	-----1,2-Dichloroethane	5.	IU
78-93-3	-----2-Butanone	10.	IU
71-55-6	-----1,1,1-Trichloroethane	5.	IU
56-23-5	-----Carbon Tetrachloride	5.	IU
108-05-4	-----Vinyl Acetate	10.	IU
75-27-4	-----Bromodichloromethane	5.	IU
78-87-5	-----1,2-Dichloropropane	5.	IU
10061-01-5	-----cis-1,3-Dichloropropene	5.	IU
79-01-6	-----Trichloroethene	5.	IU
124-48-1	-----Dibromochloromethane	5.	IU
79-00-5	-----1,1,2-Trichloroethane	5.	IU
71-43-2	-----Benzene	5.	IU
10061-02-6	-----Trans-1,3-Dichloropropene	5.	IU
75-25-2	-----Bromoform	5.	IU
108-10-1	-----4-Methyl-2-Pentanone	10.	IU
591-78-6	-----2-Hexanone	10.	IU
127-18-4	-----Tetrachloroethene	5.	IU
79-34-5	-----1,1,2,2-Tetrachloroethane	5.	IU
108-88-3	-----Toluene	5.	IU
108-90-7	-----Chlorobenzene	5.	IU
100-41-4	-----Ethylbenzene	5.	IU
100-42-5	-----Styrene	5.	IU
1330-20-7	-----Xylene (total)	5.	IU

AR500193

1E  
VOLATILE ORL ICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

63687

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 63683

Matrix: (soil/water) WATER

Lab Sample ID:

DRAFT

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: E4421

Level: (low/med) LOW

Date Received: 7/18/91

Moisture: not dec. 100.

Date Analyzed: 7/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: NET

Contract:

69687

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 69683

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: A9216

DRAFT

Level: (low/med) LOW

Date Received: 7/18/91

% Moisture: not dec. 100. dec. 0.

Date Extracted: 7/19/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N pH: .0

Dilution Factor: 1.00

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

Q

108-95-2	Phenol	10.	IU
111-44-4	bis(2-Chloroethyl)ether	10.	IU
95-57-8	2-Chlorophenol	10.	IU
541-73-1	1,3-Dichlorobenzene	10.	IU
106-46-7	1,4-Dichlorobenzene	10.	IU
100-51-6	Benzyl alcohol	10.	IU
95-50-1	1,2-Dichlorobenzene	10.	IU
95-48-7	2-Methylphenol	10.	IU
39638-32-9	bis(2-Chloroisopropyl)ether	10.	IU
106-44-5	4-Methylphenol	10.	IU
621-64-7	N-Nitroso-di-n-propylamine	10.	IU
67-72-1	Hexachloroethane	10.	IU
98-95-3	Nitrobenzene	10.	IU
78-59-1	Isophorone	10.	IU
88-75-5	2-Nitrophenol	10.	IU
105-67-9	2,4-Dimethylphenol	10.	IU
65-85-0	Benzoic acid	10.	IU
111-91-1	bis(2-Chloroethoxy)methane	50.	IU
120-83-2	2,4-Dichlorophenol	10.	IU
120-82-1	1,2,4-Trichlorobenzene	10.	IU
91-20-3	Naphthalene	10.	IU
106-47-8	4-Chloroaniline	10.	IU
87-68-3	Hexachlorobutadiene	10.	IU
59-50-7	4-Chloro-3-methylphenol	10.	IU
91-57-6	2-Methylnaphthalene	10.	IU
77-47-4	Hexachlorocyclopentadiene	10.	IU
88-06-2	2,4,6-Trichlorophenol	10.	IU
95-95-4	2,4,5-Trichlorophenol	10.	IU
91-58-7	2-Chloronaphthalene	50.	IU
88-74-4	2-Nitroaniline	10.	IU
131-11-3	Dimethylphthalate	50.	IU
208-96-8	Acenaphthylene	10.	IU
606-20-2	2,6-Dinitrotoluene	10.	IU

AR500195

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SPA SAMPLE NO.

69697

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 69683

Matrix: (soil/water) WATER

Lab Sample ID:

DRAFT

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: A9216

Level: (low/med) LOW

Date Received: 7/18/91

% Moisture: not dec. 100. dec. 0.

Date Extracted: 7/19/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N

pH: .0

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50.	IU
83-32-9	Acenaphthene	10.	IU
51-28-5	2,4-Dinitrophenol	50.	IU
100-02-7	4-Nitrophenol	50.	IU
132-64-9	Dibenzofuran	10.	IU
121-14-2	2,4-Dinitrotoluene	10.	IU
84-66-2	Diethylphthalate	10.	IU
7005-72-3	4-Chlorophenyl-phenylether	10.	IU
86-73-7	Fluorene	10.	IU
100-01-6	4-Nitroaniline	50.	IU
534-52-1	4,6-Dinitro-2-methylphenol	50.	IU
86-30-6	N-Nitrosodiphenylamine (1)	10.	IU
101-55-3	4-Bromophenyl-phenylether	10.	IU
118-74-1	Hexachlorobenzene	10.	IU
87-86-5	Pentachlorophenol	50.	IU
85-01-8	Phenanthrene	10.	IU
120-12-7	Anthracene	10.	IU
84-74-2	Di-n-butylphthalate	10.	IU
206-44-0	Fluoranthene	10.	IU
129-00-0	Pyrene	10.	IU
85-68-7	Butylbenzylphthalate	10.	IU
91-94-1	3,3'-Dichlorobenzidine	20.	IU
56-55-3	Benzo(a)anthracene	10.	IU
218-01-9	Chrysene	10.	IU
117-81-7	bis(2-Ethylhexyl)phthalate	10.	IU
117-84-0	Di-n-octylphthalate	10.	IU
205-99-2	Benzo(b)fluoranthene	10.	IU
207-08-9	Benzo(k)fluoranthene	10.	IU
50-32-8	Benzo(a)pyrene	10.	IU
193-39-5	Indeno(1,2,3-cd)pyrene	10.	IU
53-70-3	Dibenz(a,h)anthracene	10.	IU
191-24-2	Benzo(g,h,i)perylene	10.	IU

(1) - Cannot be separated from diphenylamine

AR500196

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVE IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

53687

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 69683

Matrix: (soil/water) WATER

Lab Sample ID:

DRAFT

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: A9216

Level: (low/med) LOW

Date Received: 7/19/91

% Moisture: not dec. 100. dec. 0.

Date Extracted: 7/19/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N pH: .0

Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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AR500197

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET **DRAFT**

EPA SAMPLE # 508

Lab Name: CAMBRG Contract: ENVIRON  
 Lab Code: CAMBRG Case No.: FD414B SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) WATER Lab Sample ID: 0565-12612  
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: \_\_\_\_\_  
 Level: (low/med) LOW Date Received: 07/18/91  
 % Moisture: not dec. \_\_\_\_\_ dec. \_\_\_\_\_ Date Extracted: 07/23/91  
 Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/03/91  
 GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	g
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	Lindane	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-9	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

AR500198

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

69687

Lab Name: NET ATLANTIC THOROFARE DI Contract:

Lab Code: NET

Case No.:

SAS No.: SALFORD SDG No.: 69683

Matrix (soil/water): WATER

Lab Sample ID: 23180-05S

Level (low/med): LOW

Date Received: 07/18/91

Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

**DRAFT**

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	30.00	U		P
7440-36-0	Antimony	19.00	B		P
7440-38-2	Arsenic	2.00	U		F
7440-39-3	Barium	192.00	B		P
7440-41-7	Beryllium	2.00	U		P
7440-41-7	Cadmium	2.00	U		P
7440-70-2	Calcium	52000.00			P
7440-47-3	Chromium	3.00	U		P
7440-48-4	Cobalt	5.00	U		P
7440-50-8	Copper	4.00	B		P
7439-89-6	Iron	11.00	U		P
7439-92-1	Lead	3.00	U		F
7439-95-4	Magnesium	17800.00			P
7439-96-5	Manganese	2.00	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	6.00	U		P
7440-09-7	Potassium	675.00	B		P
7782-49-2	Selenium	3.00	U		F
7440-22-4	Silver	4.00	U		P
7440-23-5	Sodium	11000.00			P
7440-28-0	Thallium	3.00	U	W	F
7440-62-2	Vanadium	4.00	U		P
7440-66-6	Zinc	12.00	B		P
	Boron	259.00			P
	Cyanide	10.00	U		C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

826B-DO14-GW01

AR500199

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
841 Chestnut Building  
Philadelphia, Pennsylvania 19107

Office of Superfund  
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257  
Mail Code 3HW21

November 5, 1991

720 Cressman Road  
Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the  
Remedial Investigation of the Salford Quarry Site

Dear :

A sample from your home well was collected on July 18, 1991 and subjected to laboratory analyses. The preliminary results from these analyses were reviewed and no contaminants were detected in your well at levels of concern.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. According to currently acceptable EPA standards, the substances detected in your well (please refer to the enclosed Sample Result Reports) pose no threat to consumers. These constituents were either present in your well at concentrations below EPA's drinking water standards or they elicit less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. Superfund includes two main components. These are called removal and remedial actions.

AR500200

Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,



Cesar Lee (3HW21)  
Remedial Project Manager  
SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports  
Summary of Select EPA Standards  
Boron Fact Sheet

cc: Bill Foster, Drinking Water Contact

AR500201

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETC CORP.

Contract:

D020GW01

Lab Code:

Case No.:

SAS No.:

SDG No.: M7442

Matrix (soil/water): WATER

Lab Sample ID: CA8573

Level (low/med): LOW

Date Received: 09/13/91

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

DRAFT

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	2.00	U		P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-4	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				
	Boron	210.00			P

Color Before: ColorlessClarity Before: Clear

Texture: \_\_\_\_\_

Color After: ColorlessClarity After: Clear

Artifacts: \_\_\_\_\_

Comments:

FORM I - IN

3/90

AR500<sup>12</sup>202



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
841 Chestnut Building  
Philadelphia, Pennsylvania 19107

Office of Superfund  
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257  
Mail Code 3HW21

November 5, 1991

224 Fawn Drive  
Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the  
Remedial Investigation of the Salford Quarry Site

Dear

Samples from your home well were collected during the period of September 10-17, 1991 and subjected to laboratory analyses. The preliminary results from these analyses were reviewed and the following evaluation is offered.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

The contaminant listed below was detected in your well at levels of concern (please refer to the enclosed Fact Sheet):

CONTAMINANT

CONCENTRATION

Boron	7,790 parts per billion (unsoftened water)
	3,410 parts per billion (softened water)

It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. The other substance which was analyzed for, lead, was not detected in your well (please refer to the enclosed Sample Result Reports).

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. AR500203

Superfund includes two main components. These are called removal and remedial actions. Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,



Cesar Lee (3HW21)  
Remedial Project Manager  
SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports  
Summary of Select EPA Standards  
Boron Fact Sheet

cc: Bill Foster, Drinking Water Contact

AR500204

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

D034GW02

Lab Name: ETC CORP.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: M7447

Matrix (soil/water): WATER

Lab Sample ID: CA8633

Level (low/med): LOW

Date Received: 09/18/91

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	2.00	U	N	P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-4	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				
	Boron	3410.0			P

DRAFT

Color Before: ColorlessClarity Before: Clear

Texture: \_\_\_\_\_

Color After: ColorlessClarity After: Clear

Artifacts: \_\_\_\_\_

Comments:

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1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

D034GW01

Lab Name: ETC CORP.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: M7447

Matrix (soil/water): WATER

Lab Sample ID: CA8630

Level (low/med): LOW

Date Received: 09/18/91

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	2.00	U	WMP	
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-4	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				
	Boron	7790.0			P

DRAFT

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: \_\_\_\_\_

Comments:

FORM I - IN

3/90

8

AR500206

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
841 Chestnut Building  
Philadelphia, Pennsylvania 19107

Office of Superfund  
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257  
Mail Code 3HW21

November 5, 1991

216 Lawn Drive  
Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the  
Remedial Investigation of the Salford Quarry Site

Dear :

Samples from your home well were collected during the period of September 10-17, 1991 and subjected to laboratory analyses. The preliminary results from these analyses were reviewed and the following evaluation is offered.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

The contaminant listed below was detected in your well at levels of concern (please refer to the enclosed Fact Sheet):

CONTAMINANT

CONCENTRATION RANGE

Boron

10,900 - 11,200 parts per billion

It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. According to currently acceptable EPA standards, the other substance which was analyzed for and detected in your well, lead, (please refer to the enclosed Sample Result Reports) poses no threat to consumers. This constituent was either present in your well at concentrations below EPA's drinking water standards or elicits less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

AR500207

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

1  
Liscu Koo

AR500208

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

D035GW01

Lab Name: ETC CORP.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: M7447

Matrix (soil/water): WATER

Lab Sample ID: CA8627

Level (low/med): LOW

Date Received: 09/18/91

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	32.00		✓	P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-4	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				
	Sum	10900.0			P

DRAFT

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: \_\_\_\_\_Comments:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETC CORP.  
Lab Code:

Case No.:

Contract:  
SAS No.:

D035GW11

SDG No.: M7447

Matrix (soil/water): WATER

Lab Sample ID: CA8628

Level (low/med): LOW

Date Received: 09/18/91

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	8.86		N	F
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-4	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				
	Barium	11300.0			P

DRAFT

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: \_\_\_\_\_

Comments:



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
841 Chestnut Building  
Philadelphia, Pennsylvania 19107

Office of Superfund  
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257  
Mail Code 3HW21

November 5, 1991

1  
225 Parkview Court  
Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the  
Remedial Investigation of the Salford Quarry Site

Dear

A sample from your home well was collected on July 19, 1991 and subjected to laboratory analyses. The preliminary results from these analyses were reviewed and no contaminants were detected in your well at levels of concern.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. According to currently acceptable EPA standards, the substances detected in your well (please refer to the enclosed Sample Result Reports) pose no threat to consumers. These constituents were either present in your well at concentrations below EPA's drinking water standards or they elicit less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

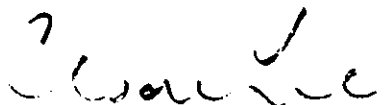
The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. Superfund includes two main components. These are called removal and remedial actions.

AR500211

Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,



Cesar Lee (3HW21)  
Remedial Project Manager  
SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports  
Summary of Select EPA Standards  
Boron Fact Sheet

cc: Bill Foster, Drinking Water Contact

AR500212

Table 4

DATA SUMMARY FORM: INORGANICS

Site Name: Salford Quarry  
 Date: 11-6-57 Sampling Date(s): 7-19-91

WATER SAMPLES  
 (µg/L)

†Due to dilution, sample quantitation limit is affected.  
 See dilution table for specifics.

CONC	ANALYTE	Sample No.	Dilution Factor	Location
200	Aluminum	1571003	10	Case Law
20	Antimony			
10	Arsenic			
200	Boron	1104		
5	Beryllium			
5	Cadmium			
5000	Calcium	58000	10	
10	Chromium			
50	Cobalt			
25	Copper			
100	Iron			
5	Lead			
5000	Magnesium	31700	10	
15	Manganese			
0.2	Mercury			
40	Nickel			
5000	Potassium	505		
5	Selenium			
10	Silver			
5000	Sodium	11900	10	
10	Strontium			
50	Tungsten	1444		
20	Zinc	101		
10	Cyanide			
P	Barium			

AR500213

DRAFT

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
841 Chestnut Building  
Philadelphia, Pennsylvania 19107

Office of Superfund  
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257  
Mail Code 3HW21

November 5, 1991

170 Hideaway Lane  
Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the  
Remedial Investigation of the Salford Quarry Site

Dear M

A sample from your home well was collected during the period of September 10-17, 1991 and subjected to laboratory analyses. The preliminary results from these analyses were reviewed and the following evaluation is offered.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

The contaminant listed below was detected in your well at levels of concern (please refer to the enclosed Fact Sheet):

CONTAMINANT

CONCENTRATION

Boron

5,070 parts per billion

It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. According to currently acceptable EPA standards, the other substance which was analyzed for and detected in your well, lead, (please refer to the enclosed Sample Result Reports) poses no threat to consumers. This constituent was either present in your well at concentrations below EPA's drinking water standards or elicits less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

AR500214

12-12-11

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. Superfund includes two main components. These are called removal and remedial actions. Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,



Cesar Lee (3HW21)  
Remedial Project Manager  
SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports  
Summary of Select EPA Standards  
Boron Fact Sheet

cc: Bill Foster, Drinking Water Contact

AR500215

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

D032GW01

Lab Name: ETC CORP.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: M7442

Matrix (soil/water): WATER

Lab Sample ID: CA8565

Level (low/med): LOW

Date Received: 09/13/91

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	2.94			
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-4	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				
	Boron	9.60			

DRAFT

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_

Color After: Colorless Clarity After: Clear Artifacts: \_\_\_\_\_

Comments:

FORM I - IN

3/90

AR500216 24

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

D032GW11

Lab Name: ETC CORP.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: M7442

Matrix (soil/water): WATER

Lab Sample ID: CA8571

Level (low/med): LOW

Date Received: 09/13/91

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	2.00	U		P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-4	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				
	Boron	22200			P

DRAFT

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: \_\_\_\_\_

Comments:

FORM I - IN

3/90

AR500217  
25

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
841 Chestnut Building  
Philadelphia, Pennsylvania 19107

Office of Superfund  
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257  
Mail Code 3HW21

November 5, 1991

210 Fawn Drive  
Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the  
Remedial Investigation of the Salford Quarry Site

Dear

A sample from your home well was collected during the period of September 10-17, 1991 and subjected to laboratory analyses. The preliminary results from these analyses were reviewed and the following evaluation is offered.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

The contaminant listed below was detected in your well at levels of concern (please refer to the enclosed Fact Sheet):

CONTAMINANT

CONCENTRATION

Boron

11,800 parts per billion

It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. The other substance which was analyzed for, lead, was not detected in your well (please refer to the enclosed Sample Result Reports).

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. AR500218



Superfund includes two main components. These are called removal and remedial actions. Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,



Cesar Lee (3HW21)  
Remedial Project Manager  
SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports  
Summary of Select EPA Standards  
Boron Fact Sheet

cc: Bill Foster, Drinking Water Contact

AR500219

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

D030GW01

Lab Name: ETC CORP.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: M7442

Matrix (soil/water): WATER

Lab Sample ID: CA8562

Level (low/med): LOW

Date Received: 09/13/91

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	2.00	U		P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-4	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				
	Boron	11800.0			P

DRAFT

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: \_\_\_\_\_

Comments:

FORM I - IN

390

AR500220  
22

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
841 Chestnut Building  
Philadelphia, Pennsylvania 19107

Office of Superfund  
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257  
Mail Code 3HW21

November 5, 1991

236 Fawn Drive  
Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the  
Remedial Investigation of the Salford Quarry Site

Dear

Samples from your home well were collected during the period of September 10-17, 1991 and subjected to laboratory analyses. The preliminary results from these analyses were reviewed and neither of the contaminants which were analyzed for, boron and lead, were detected in your well at levels of concern.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

According to currently acceptable EPA standards, the substances detected in your well (please refer to the enclosed Sample Result Reports) pose no threat to consumers. These constituents were either present in your well at concentrations below EPA's drinking water standards or they elicit less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. Superfund includes two main components. These are called removal and remedial actions. Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case, providing bottled water to affected residences.

AR500221

Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,



Cesar Lee (3HW21)  
Remedial Project Manager  
SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports  
Summary of Select EPA Standards  
Boron Fact Sheet

cc: Bill Foster, Drinking Water Contact

AR500222

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

D033GW01

Lab Name: ETC CORP.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: M7444

Matrix (soil/water): WATER

Lab Sample ID: CA8563

Level (low/med): LOW

Date Received: 09/16/91

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	7.36			P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-4	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				
	Boron	50720			P

DRAFT

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: \_\_\_\_\_

Comments:

FORM I - IN

3/90

AR500223 9

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
841 Chestnut Building  
Philadelphia, Pennsylvania 19107

Office of Superfund  
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257  
Mail Code 3HW21

November 5, 1991

227 Fawn Drive  
Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the  
Remedial Investigation of the Salford Quarry Site

Dear Mr

A sample from your home well was collected during the period of September 10-17, 1991 and subjected to laboratory analyses. The preliminary results from these analyses were reviewed and the following evaluation is offered.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

The contaminant listed below was detected in your well at levels of concern (please refer to the enclosed Fact Sheet):

CONTAMINANT

CONCENTRATION

Boron

8,400 parts per billion

It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. The other substance which was analyzed for, lead, was not detected in your well (please refer to the enclosed Sample Result Reports).

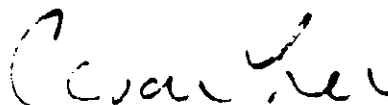
The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund.

AR500224

Superfund includes two main components. These are called removal and remedial actions. Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,



Cesar Lee (3HW21)  
Remedial Project Manager  
SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports  
Summary of Select EPA Standards  
Boron Fact Sheet

cc: Bill Foster, Drinking Water Contact

AR500225

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETC CORP.

Lab Code:

Case No.:

Contract:

SAS No.:

D031GW01

SDG No.: M7442

Matrix (soil/water): WATER

Lab Sample ID: CA8566

Level (low/med): LOW

Date Received: 09/13/91

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	2.00	U		F
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-4	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				
	Baron	8400.0			F

DRAFT

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: \_\_\_\_\_

Comments:

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
841 Chestnut Building  
Philadelphia, Pennsylvania 19107

Office of Superfund  
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257  
Mail Code 3HW21

November 5, 1991

Mr. a:  
209 Shady Nook Hill Road  
Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the  
Remedial Investigation of the Salford Quarry Site

Dear Mr. and Mr:

Samples from your home well were collected on July 18, and September 10-17, 1991 and subjected to laboratory analyses. The preliminary results from these analyses were reviewed and the following evaluation is offered.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

The contaminants listed below were detected in your well at levels of concern (please refer to the enclosed Fact Sheet):

<u>CONTAMINANT</u>	<u>CONCENTRATION RANGE</u>
Boron	11,800 - 12,100 parts per billion

According to currently acceptable EPA standards, the other substances detected in your well (please refer to the enclosed Sample Result Reports) pose no threat to consumers. These constituents were either present in your well at concentrations below EPA's drinking water standards or they elicit less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

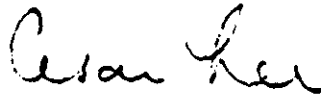
The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund.

AR500227

Superfund includes two main components. These are called removal and remedial actions. Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,



Cesar Lee (3HW21)  
Remedial Project Manager  
SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports  
Summary of Select EPA Standards  
Boron Fact Sheet

cc: Bill Foster, Drinking Water Contact

AR500228

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

LAB SAMPLE NO.

69684

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 69683

Matrix: (soil/water) WATER

Lab Sample ID:

**DRAFT**

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: E4418

Level: (low/med) LOW

Date Received: 7/18/91

% Moisture: not dec. 100.

Date Analyzed: 7/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L Q

74-87-3	Chloromethane	10.	IU
74-83-9	Bromomethane	10.	IU
75-01-4	Vinyl Chloride	10.	IU
75-00-3	Chloroethane	10.	IU
75-09-2	Methylene Chloride	5.	IU
67-64-1	Acetone	10.	IU
75-15-0	Carbon Disulfide	5.	IU
75-35-4	1,1-Dichloroethene	5.	IU
75-34-3	1,1-Dichloroethane	5.	IU
540-59-0	1,2-Dichloroethene (total)	5.	IU
67-66-3	Chloroform	5.	IU
107-06-2	1,2-Dichloroethane	5.	IU
78-93-3	2-Butanone	10.	IU
71-55-6	1,1,1-Trichloroethane	5.	IU
56-23-5	Carbon Tetrachloride	5.	IU
108-05-4	Vinyl Acetate	10.	IU
75-27-4	Bromodichloromethane	5.	IU
78-87-3	1,2-Dichloropropane	5.	IU
10061-01-5	cis-1,3-Dichloropropene	5.	IU
73-01-6	Trichloroethene	5.	IU
124-48-1	Dibromochloromethane	5.	IU
73-00-5	1,1,2-Trichloroethane	5.	IU
71-43-2	Benzene	5.	IU
10061-02-6	Trans-1,3-Dichloropropene	5.	IU
75-25-2	Bromoform	5.	IU
108-10-1	4-Methyl-2-Pentanone	10.	IU
591-78-6	2-Hexanone	10.	IU
127-18-4	Tetrachloroethene	5.	IU
79-34-5	1,1,2,2-Tetrachloroethane	5.	IU
108-88-3	Toluene	5.	IU
108-90-7	Chlorobenzene	5.	IU
100-41-4	Ethylbenzene	5.	IU
100-42-5	Styrene	5.	IU
1330-20-7	Xylene (total)	5.	IU

AR500229

15  
VOLATILE OR/ ICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

69684

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 69683

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: E4418

Level: (low/med) LOW

Date Received: 7/18/91

% Moisture: not dec. 100.

Date Analyzed: 7/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

DRAFT

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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18  
SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

69684

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 69683

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: A9210

Level: (low/med) LOW

Date Received: 7/18/91

% Moisture: not dec. 100. dec. 0.

Date Extracted: 7/19/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N

pH: .0

Dilution Factor: 1.00

DRAFT

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10.	1U
111-44-4	bis(2-Chloroethyl)ether	10.	1U
95-57-8	2-Chlorophenol	10.	1U
541-73-1	1,3-Dichlorobenzene	10.	1U
106-46-7	1,4-Dichlorobenzene	10.	1U
100-51-6	Benzyl alcohol	10.	1U
95-50-1	1,2-Dichlorobenzene	10.	1U
95-48-7	2-Methylphenol	10.	1U
39638-32-9	bis(2-Chloroisopropyl)ether	10.	1U
106-44-5	4-Methylphenol	10.	1U
621-64-7	N-Nitroso-di-n-propylamine	10.	1U
67-72-1	Hexachloroethane	10.	1U
98-95-3	Nitrobenzene	10.	1U
78-59-1	Isophorone	10.	1U
88-75-5	2-Nitrophenol	10.	1U
105-67-9	2,4-Dimethylphenol	10.	1U
65-85-0	Benzoic acid	50.	1U
111-91-1	bis(2-Chloroethoxy)methane	10.	1U
120-83-2	2,4-Dichlorophenol	10.	1U
120-82-1	1,2,4-Trichlorobenzene	10.	1U
91-20-3	Naphthalene	10.	1U
106-47-8	4-Chloroaniline	10.	1U
87-68-3	Hexachlorobutadiene	10.	1U
59-50-7	4-Chloro-3-methylphenol	10.	1U
91-57-6	2-Methylnaphthalene	10.	1U
77-47-4	Hexachlorocyclopentadiene	10.	1U
88-06-2	2,4,6-Trichlorophenol	10.	1U
95-95-4	2,4,5-Trichlorophenol	50.	1U
91-58-7	2-Chloronaphthalene	10.	1U
88-74-4	3-Nitroaniline	50.	1U
131-11-3	Dimethylphthalate	10.	1U
208-96-8	Acenaphthylene	10.	1U
606-20-2	2,6-Dinitrotoluene	10.	1U

AR500231

1C  
SEMIVOLATILE ORG/CS ANALYSIS DATA SHEET

EPA SAMPLE NO.

69684

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 69683

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: A9213

Level: (low/med) LOW

Date Received: 7/18/91

% Moisture: not dec. 100. dec. 0.

Date Extracted: 7/19/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N

pH: .0

Dilution Factor: 1.00

DRAFT

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

99-09-2-----	3-Nitroaniline	50.	IU
83-32-9-----	Acenaphthene	10.	IU
51-28-5-----	2,4-Dinitrophenol	50.	IU
100-02-7-----	4-Nitrophenol	50.	IU
132-64-9-----	Dibenzofuran	10.	IU
121-14-2-----	2,4-Dinitrotoluene	10.	IU
84-66-2-----	Diethylphthalate	10.	IU
7005-72-3-----	4-Chlorophenyl-phenylether	10.	IU
86-73-7-----	Fluorene	10.	IU
100-01-6-----	4-Nitroaniline	50.	IU
534-52-1-----	4,6-Dinitro-2-methylphenol	50.	IU
86-30-6-----	N-Nitrosodiphenylamine (1)	10.	IU
101-55-3-----	4-Bromophenyl-phenylether	10.	IU
118-74-1-----	Hexachlorobenzene	10.	IU
87-86-5-----	Pentachlorophenol	50.	IU
85-01-8-----	Phenanthrene	10.	IU
120-12-7-----	Anthracene	10.	IU
84-74-2-----	Di-n-butylphthalate	10.	IU
206-44-0-----	Fluoranthene	10.	IU
129-00-0-----	Pyrene	10.	IU
85-68-7-----	Butylbenzylphthalate	10.	IU
91-94-1-----	3,3'-Dichlorobenzidine	20.	IU
56-55-3-----	Benzo(a)anthracene	10.	IU
218-01-9-----	Chrysene	10.	IU
117-81-7-----	bis(2-Ethylhexyl)phthalate	10.	IU
117-84-0-----	Di-n-octylphthalate	10.	IU
205-99-2-----	Benzo(b)fluoranthene	10.	IU
207-08-9-----	Benzo(k)fluoranthene	10.	IU
50-32-8-----	Benzo(a)pyrene	10.	IU
193-39-5-----	Indeno(1,2,3-cd)pyrene	10.	IU
53-70-3-----	Dibenz(a,h)anthracene	10.	IU
191-24-2-----	Benzo(g,h,i)perylene	10.	IU

(1) - Cannot be separated from diphenylamine

SEMIVOLATILE ORGA IF  
S ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

59684

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 63683

Matrix: (soil/water) WATER

Lab Sample ID:

**DRAFT**

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: A9213

Level: (low/med) LOW

Date Received: 7/18/91

% Moisture: not dec. 100. dec. 0.

Date Extracted: 7/19/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N pH: .0

Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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AR500233

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

**DRAFT**

50017  
EPA SAMPLE NO.

Lab Name: CAMBRG Contract: ENVIRON DO12GW01

Lab Code: CAMBRG Case No.: FD414B SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 0545-12609

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: \_\_\_\_\_

Level: (low/med) LOW Date Received: 07/18/91

% Moisture: not dec. \_\_\_\_\_ dec. \_\_\_\_\_ Date Extracted: 07/23/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/03/91

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	g
319-84-6	alpha-BHC	0.10	U
319-85-7	beta-BHC	0.10	U
319-86-8	delta-BHC	0.10	U
58-89-9	Lindane	0.10	U
76-44-8	Heptachlor	0.10	U
309-00-2	Aldrin	0.10	U
1024-57-3	Heptachlor epoxide	0.10	U
959-98-8	Endosulfan I	0.10	U
60-57-1	Dieldrin	0.20	U
72-55-9	4,4'-DDE	0.20	U
72-20-8	Endrin	0.20	U
33213-65-9	Endosulfan II	0.20	U
72-54-8	4,4'-DDD	0.20	U
1031-07-8	Endosulfan sulfate	0.20	U
50-29-3	4,4'-DDT	0.20	U
72-43-5	Methoxychlor	1.0	U
53494-70-5	Endrin ketone	0.20	U
5103-71-9	alpha-Chlordane	1.0	U
5103-74-2	gamma-Chlordane	1.0	U
8001-35-2	Toxaphene	2.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-9	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	2.0	U
11096-82-5	Aroclor-1260	2.0	U

AR500234



U.S. EPA - CLP

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

69684

Lab Name: NET ATLANTIC THOROFARE DI Contract:

Lab Code: NET

Case No.:

SAS No.: SALFORD SDG No.: 69683

Matrix (soil/water): WATER

Lab Sample ID: 23180-02S

Level (low/med): LOW

Date Received: 07/18/91

Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

DRAFT

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	30.00	U		P
7440-36-0	Antimony	26.00	B		P
7440-38-2	Arsenic	2.00	B		F
7440-39-3	Barium	84.00	B		P
7440-41-7	Beryllium	2.00	U		P
7440-41-7	Cadmium	2.00	U		P
7440-70-2	Calcium	43600.00			P
7440-47-3	Chromium	3.00	U		P
7440-48-4	Cobalt	5.00	U		P
7440-50-8	Copper	19.00	B		P
7439-89-6	Iron	11.00	U		P
7439-92-1	Lead	3.00	U		F
7439-95-4	Magnesium	20300.00			P
7439-96-5	Manganese	2.00	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	6.00	U		P
7440-09-7	Potassium	919.00	B		P
7782-49-2	Selenium	3.00	U		F
7440-22-4	Silver	4.00	U		P
7440-23-5	Sodium	25900.00			P
7440-28-0	Thallium	3.00	U	W	F
7440-62-2	Vanadium	4.00	U		P
7440-66-6	Zinc	16.00	B		P
	Boron	11800.00			P
	Cyanide	10.00	U		C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

AR500235

826B-DO12-GW01

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

D012GW02

Lab Name: ETC CORP.

Lab Code:

Case No.:

Contract:

SAS No.:

SDG No.: M7442

Matrix (soil/water): WATER

Lab Sample ID: CA8577

Level (low/med): LOW

Date Received: 09/13/91

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

DRAFT

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	2.00	U		P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-4	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				
	Barium	12.00			P

Color Before: ColorlessClarity Before: Clear

Texture: \_\_\_\_\_

Color After: ColorlessClarity After: Clear

Artifacts: \_\_\_\_\_

Comments:

FORM I - IN

3/10

AR50Q236

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
841 Chestnut Building  
Philadelphia, Pennsylvania 19107

Office of Superfund  
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257  
Mail Code 3HW21

NOT DELIVERABLE

FD-X TO 4/14/91

D,

November 5, 1991

715 Quarry Road  
Harleysville, Pennsylvania 19438

404 MAIN ST.  
HARLEYSVILLE, PA 19438

Re: Analysis of the Home Well during the  
Remedial Investigation of the Salford Quarry Site

Dear :

Samples from your home well were collected on July 18, and September 10-17, 1991 and subjected to laboratory analyses. The preliminary results from these analyses were reviewed and the following evaluation is offered.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

The contaminants listed below were detected in your well at levels of concern (please refer to the enclosed Fact Sheet):

CONTAMINANT

CONCENTRATION RANGE

Boron

6,840 - 8,240 parts per billion

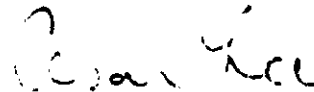
According to currently acceptable EPA standards, the other substances detected in your well (please refer to the enclosed Sample Result Reports) pose no threat to consumers. These constituents were either present in your well at concentrations below EPA's drinking water standards or they elicit less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

AR500237

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. Superfund includes two main components. These are called removal and remedial actions. Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,



Cesar Lee (JHW21)  
Remedial Project Manager  
SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports  
Summary of Select EPA Standards  
Boron Fact Sheet

cc: Bill Foster, Drinking Water Contact

AR500238

1A  
VOLATILE C INICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

69683

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 69683

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: E4415

Level: (low/med) LOW

Date Received: 7/18/91

% Moisture: not dec. 100.

Date Analyzed: 7/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

**DRAFT**

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L g

74-87-3	Chloromethane	10.	1U
74-83-9	Bromomethane	10.	1U
75-01-4	Vinyl Chloride	10.	1U
75-00-3	Chloroethane	10.	1U
75-09-2	Methylene Chloride	5.	1U
67-64-1	Acetone	10.	1U
75-15-0	Carbon Disulfide	5.	1U
75-35-4	1,1-Dichloroethane	5.	1U
75-34-3	1,1-Dichloroethane	5.	1U
540-59-0	1,2-Dichloroethane (total)	5.	1U
67-66-3	Chloroform	5.	1U
107-06-2	1,2-Dichloroethane	5.	1U
78-93-3	2-Butanone	10.	1U
71-55-6	1,1,1-Trichloroethane	5.	1U
56-23-5	Carbon Tetrachloride	5.	1U
108-05-4	Vinyl Acetate	10.	1U
75-27-4	Bromodichloromethane	5.	1U
78-87-5	1,2-Dichloropropane	5.	1U
10061-01-5	cis-1,3-Dichloropropene	5.	1U
79-01-6	Trichloroethane	5.	1U
124-48-1	Dibromochloromethane	5.	1U
79-06-5	1,1,2-Trichloroethane	5.	1U
71-43-2	Benzene	5.	1U
10061-02-6	Trans-1,3-Dichloropropene	5.	1U
75-25-2	Bromoform	5.	1U
108-18-1	4-Methyl-2-Pentanone	10.	1U
591-78-6	2-Hexanone	10.	1U
127-18-4	Tetrachloroethane	5.	1U
79-34-5	1,1,2,2-Tetrachloroethane	5.	1U
100-66-3	Toluene	5.	1U
100-90-7	Chlorobenzene	5.	1U
100-41-4	Ethylbenzene	5.	1U
	Styrene	5.	1U
	Styrene (total)	5.	1U

AR500239

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

SEA SAMPLE NO.

63683

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 63683

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: E4415

Level: (low/med) LOW

Date Received: 7/18/91

% Moisture: not dec. 100.

Date Analyzed: 7/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

DRAFT

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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AR500240

12  
SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: NET

Contract:

69683

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 69683

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: A9205

Level: (low/med) LOW

Date Received: 7/18/91

% Moisture: not dec. 100. dec. 0.

Date Extracted: 7/19/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 7/26/91

GPC Cleanup: (Y/N) N

pH: .0

Dilution Factor: 1.00

DRAFT

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/L	g
108-95-2	Phenol	10.	IU
111-44-4	bis(2-Chloroethyl) ether	10.	IU
95-57-6	2-Chlorophenol	10.	IU
541-73-1	1,3-Dichlorobenzene	10.	IU
106-46-7	1,4-Dichlorobenzene	10.	IU
108-51-6	Benzyl alcohol	10.	IU
95-58-1	1,2-Dichlorobenzene	10.	IU
95-48-7	2-Methylphenol	10.	IU
39638-32-9	bis(2-Chloroisopropyl) ether	10.	IU
106-44-5	4-Methylphenol	10.	IU
621-64-7	N-Nitroso-di-n-propylamine	10.	IU
67-72-1	Hexachloroethane	10.	IU
98-95-3	Nitrobenzene	10.	IU
78-59-1	Isophorone	10.	IU
88-75-5	2-Nitrophenol	10.	IU
105-67-9	2,4-Dimethylphenol	10.	IU
65-85-6	Benzoic acid	50.	IU
111-91-1	bis(2-Chloroethoxy) methane	10.	IU
120-83-2	2,4-Dichlorophenol	10.	IU
120-82-1	1,2,4-Trichlorobenzene	10.	IU
91-20-3	Naphthalene	10.	IU
106-47-8	4-Chloroaniline	10.	IU
87-68-3	Hexachlorobutadiene	10.	IU
59-58-7	4-Chloro-3-methylphenol	10.	IU
91-57-6	2-Methylnaphthalene	10.	IU
77-47-4	Hexachlorocyclopentadiene	10.	IU
88-06-2	2,4,6-Trichlorophenol	10.	IU
95-95-4	2,4,5-Trichlorophenol	50.	IU
91-58-7	2-Chloronaphthalene	10.	IU
88-74-4	2-Nitroaniline	50.	IU
131-11-3	Dimethylphthalate	10.	IU
208-96-8	Acenaphthylene	10.	IU
605-20-2	2,6-Dinitrotoluene	10.	IU

AR500241

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVE IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

69683

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 69693

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: A9205

Level: (low/med) LOW

Date Received: 7/18/91

Moisture: not dec. 100. dec. 0.

Date Extracted: 7/19/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 7/26/91

GPC Cleanup: (Y/N) N pH: .0

Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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AR500242

DRAF



1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

**DRAFT**

EPA SAMPLE

Lab Name: CAMBRG Contract: ENVIRON D0110

Lab Code: CAMBRG Case No.: FD414B SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 0565-12408

Sample wt/vol: 1000 (g/mL) ML Lab File ID: \_\_\_\_\_

Level: (low/med) LOW Date Received: 07/18/91

% Moisture: not dec. \_\_\_\_\_ dec. \_\_\_\_\_ Date Extracted: 07/23/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/03/91

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L g

CAS NO.	COMPOUND	
319-84-6	alpha-BHC	0.0501U
319-85-7	beta-BHC	0.0501U
319-86-8	delta-BHC	0.0501U
58-89-9	Lindane	0.0501U
76-44-8	Heptachlor	0.0501U
309-00-2	Aldrin	0.0501U
1024-57-3	Heptachlor epoxide	0.0501U
959-98-8	Endosulfan I	0.0501U
60-57-1	Dieldrin	0.101U
72-55-9	4,4'-DDE	0.101U
72-20-8	Endrin	0.101U
33213-65-9	Endosulfan II	0.101U
72-54-8	4,4'-DDD	0.101U
1031-07-8	Endosulfan sulfate	0.101U
50-29-3	4,4'-DDT	0.101U
72-43-5	Methoxychlor	0.501U
53494-70-5	Endrin ketone	0.101U
5103-71-9	alpha-Chlordane	0.501U
5103-74-2	gamma-Chlordane	0.501U
8001-35-2	Toxaphene	1.01U
12674-11-2	Aroclor-1016	0.501U
11104-28-2	Aroclor-1221	0.501U
11141-14-5	Aroclor-1232	0.501U
53469-21-9	Aroclor-1242	0.501U
12672-29-6	Aroclor-1248	0.501U
11097-69-1	Aroclor-1254	1.01U
11096-82-5	Aroclor-1260	1.01U

AR500243

## U.S. EPA - CLP

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

69683

Lab Name: NET ATLANTIC THOROPARE DI Contract:

Lab Code: NET

Case No.:

SAS No.: SALFORD SDG No.: 69683

Matrix (soil/water): WATER

Lab Sample ID: 23180-015

Level (low/med): LOW

Date Received: 07/18/91

Solids: 0.0

**DRAFT**

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	30.00	U		P
7440-36-0	Antimony	15.00	U		P
7440-38-2	Arsenic	3.00	B		F
7440-39-3	Barium	241.00			P
7440-41-7	Beryllium	2.00	U		P
7440-41-7	Cadmium	2.00	U		P
7440-70-2	Calcium	41200.00			P
7440-47-3	Chromium	3.00	U		P
7440-48-4	Cobalt	5.00	U		P
7440-50-8	Copper	8.00	B		P
7439-89-6	Iron	11.00	U		P
7439-92-1	Lead	3.00	U		F
7439-95-4	Magnesium	19600.00			P
7439-96-5	Manganese	2.00	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	6.00	U		P
7440-09-7	Potassium	913.00	B		P
7782-49-2	Selenium	3.00	U	W	F
7440-22-4	Silver	4.00	U		P
7440-23-5	Sodium	18300.00			P
7440-28-0	Thallium	3.00	U	W	F
7440-62-2	Vanadium	4.00	U		P
7440-66-6	Zinc	26.00			P
	Boron	8240.00			P
	Cyanide	16.70	U		C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

826B-D011-GW01

AR500244

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

D011GW02

Lab Name: ETC CORP.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: M7442

Matrix (soil/water): WATER

Lab Sample ID: CA8579

Level (low/med): LOW

Date Received: 09/13/91

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

**DRAFT**

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	2.00	U		P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-4	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				
	Barium	6840.0			P

Color Before: ColorlessClarity Before: Clear

Texture: \_\_\_\_\_

Color After: ColorlessClarity After: Clear

Artifacts: \_\_\_\_\_

Comments:

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
841 Chestnut Building  
Philadelphia, Pennsylvania 19107

Office of Superfund  
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257  
Mail Code 3HW21

November 5, 1991

1  
710 Cressman Road  
Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the  
Remedial Investigation of the Salford Quarry Site

Dear :

A sample from your home well was collected on July 18, 1991 and subjected to laboratory analyses. The preliminary results from these analyses were reviewed and no contaminants were detected in your well at levels of concern.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. According to currently acceptable EPA standards, the substances detected in your well (please refer to the enclosed Sample Result Reports) pose no threat to consumers. These constituents were either present in your well at concentrations below EPA's drinking water standards or they elicit less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

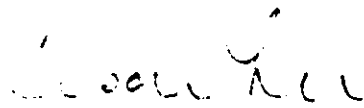
The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. Superfund includes two main components. These are called removal and remedial actions.

AR500246

Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,



Cesar Lee (3HW21)  
Remedial Project Manager  
SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports  
Summary of Select EPA Standards  
Boron Fact Sheet

cc: Bill Foster, Drinking Water Contact

AR500247

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

69754

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 69797

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: E4425

DRAFT

Level: (low/med) LOW

Date Received: 7/19/91

% Moisture: not dec. 100.

Date Analyzed: 7/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

74-87-3	-----Chloromethane	10.	IU
74-83-3	-----Bromomethane	10.	IU
75-01-4	-----Vinyl Chloride	10.	IU
75-00-3	-----Chloroethane	10.	IU
75-09-2	-----Methylene Chloride	5.	IU
67-64-1	-----Acetone	10.	IU
75-15-0	-----Carbon Disulfide	5.	IU
75-35-4	-----1,1-Dichloroethene	5.	IU
75-34-3	-----1,1-Dichloroethane	5.	IU
540-59-0	-----1,2-Dichloroethene (total)	5.	IU
67-66-3	-----Chloroform	5.	IU
107-06-2	-----1,2-Dichloroethane	5.	IU
78-93-3	-----2-Butanone	10.	IU
71-55-6	-----1,1,1-Trichloroethane	5.	IU
56-23-5	-----Carbon Tetrachloride	5.	IU
108-05-4	-----Vinyl Acetate	10.	IU
75-27-4	-----Bromodichloromethane	5.	IU
78-87-5	-----1,2-Dichloropropane	5.	IU
10061-01-5	-----cis-1,3-Dichloropropene	5.	IU
79-01-6	-----Trichloroethene	5.	IU
124-48-1	-----Dibromochloromethane	5.	IU
79-00-5	-----1,1,2-Trichloroethane	5.	IU
71-43-2	-----Benzene	5.	IU
10061-02-6	-----Trans-1,3-Dichloropropene	5.	IU
75-25-2	-----Bromoform	5.	IU
108-10-1	-----4-Methyl-2-Pentanone	10.	IU
591-78-6	-----2-Hexanone	10.	IU
127-18-4	-----Tetrachloroethene	5.	IU
79-34-5	-----1,1,2,2-Tetrachloroethane	5.	IU
108-88-3	-----Toluene	5.	IU
108-90-7	-----Chlorobenzene	5.	IU
100-41-4	-----Ethylbenzene	5.	IU
100-42-5	-----Styrene	5.	IU
1330-20-7	-----Xylene (total)	5.	IU

AR500248

15  
VOLATILE OR TIC ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

63754

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 63797

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: E4425

Level: (low/med) LOW

Date Received: 7/19/91

% Moisture: not dec. 100.

Date Analyzed: 7/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

DRAFT

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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12  
SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

69754

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 69797

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: F9756

DRAFT

Level: (low/med) LOW

Date Received: 7/19/91

% Moisture: not dec. 100. dec. 0.

Date Extracted: 7/23/91

Extraction: (Sepf/Cont/Sonc) CONT

Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N

pH: .8

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) ug/L	g
106-95-2	Phenol	10.	IU
111-44-4	bis(2-Chloroethyl) ether	10.	IU
95-57-8	2-Chlorophenol	10.	IU
541-73-1	1,3-Dichlorobenzene	10.	IU
106-46-7	1,4-Dichlorobenzene	10.	IU
100-51-6	Benzyl alcohol	10.	IU
95-50-1	1,2-Dichlorobenzene	10.	IU
95-48-7	2-Methylphenol	10.	IU
39638-32-9	bis(2-Chloroisopropyl) ether	10.	IU
106-44-5	4-Methylphenol	10.	IU
621-64-7	N-Nitroso-di-n-propylamine	10.	IU
67-72-1	Hexachloroethane	10.	IU
98-95-3	Nitrobenzene	10.	IU
78-59-1	Isophorone	10.	IU
88-75-5	2-Nitrophenol	10.	IU
105-67-9	2,4-Dimethylphenol	10.	IU
65-85-0	Benzoic acid	50.	IU
111-91-1	bis(2-Chloroethoxy) methane	10.	IU
120-63-2	2,4-Dichlorophenol	10.	IU
120-62-1	1,2,4-Trichlorobenzene	10.	IU
91-20-3	Naphthalene	10.	IU
106-47-8	4-Chloroaniline	10.	IU
87-68-3	Hexachlorobutadiene	10.	IU
59-50-7	4-Chloro-3-methylphenol	10.	IU
91-57-6	2-Methylnaphthalene	10.	IU
77-47-4	Hexachlorocyclopentadiene	10.	IU
88-06-2	2,4,6-Trichlorophenol	10.	IU
95-95-4	2,4,5-Trichlorophenol	50.	IU
91-58-7	2-Chloronaphthalene	10.	IU
88-74-4	2-Nitroaniline	50.	IU
131-11-3	Dimethylphthalate	10.	IU
206-96-8	Acenaphthylene	10.	IU
606-20-2	2,6-Dinitrotoluene	10.	IU

AR500250



1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

69754

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD BAS No.:

SDS No.: 69797

Matrix: (soil/water) WATER

Lab Sample ID:

DRAFT

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: F5758

Level: (low/med) LOW

Date Received: 7/19/91

% Moisture: not dec. 100. dec. 0.

Date Extracted: 7/23/91

Extraction: (SepF/Cont/Sone) CONT

Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N

pH: .0

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50.	1U
83-32-3	Acenaphthene	10.	1U
51-28-5	2,4-Dinitrophenol	50.	1U
100-02-7	4-Nitrophenol	50.	1U
132-64-9	Dibenzofuran	10.	1U
121-14-2	2,4-Dinitrotoluene	10.	1U
84-66-2	Diethylphthalate	10.	1U
7805-72-3	4-Chlorophenyl-phenylether	10.	1U
86-73-7	Fluorene	10.	1U
100-01-6	4-Nitroaniline	50.	1U
534-52-1	4,6-Dinitro-2-methylphenol	50.	1U
86-30-4	N-Nitrosodiphenylamine (1)	10.	1U
101-55-3	4-Bromophenyl-phenylether	10.	1U
118-74-1	Hexachlorobenzene	10.	1U
87-86-5	Pentachlorophenol	50.	1U
85-01-8	Phenanthrene	10.	1U
120-12-7	Anthracene	10.	1U
84-74-2	Di-n-butylphthalate	10.	1U
206-44-0	Fluoranthene	10.	1U
129-00-0	Pyrene	10.	1U
85-68-7	Butylbenzylphthalate	10.	1U
91-94-1	3,3'-Dichlorobenzidine	20.	1U
56-55-3	Benzo(a)anthracene	10.	1U
218-01-9	Chrysene	10.	1U
117-81-7	bis(2-Ethylhexyl)phthalate	10.	1U
117-84-0	Di-n-octylphthalate	10.	1U
205-99-2	Benzo(b)fluoranthene	10.	1U
207-08-9	Benzo(k)fluoranthene	10.	1U
50-32-8	Benzo(a)pyrene	10.	1U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	1U
53-70-3	Dibenz(a,h)anthracene	10.	1U
191-24-2	Benzo(g,h,i)perylene	10.	1U

(1) - Cannot be separated from diphenylamine

AR500251

IF  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

69754

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDB No.: 69797

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: 75758

Level: (low/med) LOW

Date Received: 7/19/91

% Moisture: not dec. 100. dec. 0.

Date Extracted: 7/23/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N pH: .0

Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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AR500252

ID  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CRAFT

500  
EPA SAMPLE NO.

Lab Name: CAMBRG Contract: ENVIRON DO17GWO

Lab Code: CAMBRG Case No.: FD414B SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 0365-12619

Sample wt/vol: 1000 (g/mL) ML Lab File ID: \_\_\_\_\_

Level: (low/med) LOW Date Received: 07/19/91

% Moisture: not dec. \_\_\_\_\_ dec. \_\_\_\_\_ Date Extracted: 07/23/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/04/91

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	g
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	Lindane	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-69-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

AR500253

## U.S. EPA - CLP

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

69754

Lab Name: NET ATLANTIC THOROFARE DI Contract:

Lab Code: NET Case No.: SAS No.: SALFORD SDG No.: 69683

Matrix (soil/water): WATER

Lab Sample ID: 23180-12S

Level (low/med): LOW

Date Received: 07/19/91

Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

DRAFT

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	30.00	U		P
7440-36-0	Antimony	28.00	B		P
7440-38-2	Arsenic	2.00	B		P
7440-39-3	Barium	67.00	B		P
7440-41-7	Beryllium	2.00	U		P
7440-41-7	Cadmium	2.00	U		P
7440-70-2	Calcium	35200.00			P
7440-47-3	Chromium	3.00	U		P
7440-48-4	Cobalt	5.00	U		P
7440-50-8	Copper	11.00	B		P
7439-89-6	Iron	11.00	U		P
7439-92-1	Lead	3.00	U		P
7439-95-4	Magnesium	12200.00			P
7439-96-5	Manganese	2.00	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	6.00	U		P
7440-09-7	Potassium	635.00	B		P
7782-49-2	Selenium	3.00	U	W	P
7440-22-4	Silver	4.00	U		P
7440-23-5	Sodium	7700.00			P
7440-28-0	Thallium	3.00	U		P
7440-62-2	Vanadium	4.00	U		P
7440-66-6	Zinc	38.00			P
	Boron	588.00			P
	Cyanide	10.40	U		C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

826B-DO17-GW01

AR500254

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
841 Chestnut Building  
Philadelphia, Pennsylvania 19107

Office of Superfund  
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257  
Mail Code 3HW21

November 5, 1991

Mr  
221 Park View Court  
Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the  
Remedial Investigation of the Salford Quarry Site

Dear M: :

Samples from your home well were collected on July 18, 1991 and subjected to laboratory analyses. The preliminary results from these analyses were reviewed and the following evaluation is offered.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

The contaminants listed below were detected in your well at levels of concern (please refer to the enclosed Fact Sheet):

<u>CONTAMINANT</u>	<u>CONCENTRATION RANGE</u>
Antimony	Not Detected - 308 parts per billion

According to currently acceptable EPA standards, the other substances detected in your well (please refer to the enclosed Sample Result Reports) pose no threat to consumers. These constituents were either present in your well at concentrations below EPA's drinking water standards or they elicit less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

Consideration is currently being given to collecting an additional sample from your well. You will be contacted if further analysis of the available data indicates that resampling is warranted.

AR500255

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. Superfund includes two main components. These are called removal and remedial actions. Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,



Cesar Lee (3HW21)  
Remedial Project Manager  
SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports  
Summary of Select EPA Standards  
Boron Fact Sheet  
Antimony Fact Sheet

cc: Bill Foster, Drinking Water Contact

AR500256

1A  
VOLATILE ORG. COS ANALYSIS DATA SHEET

PPA SAMPLE NO.

69686

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 69683

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: E4420

**DRAFT**

Level: (low/med) LOW

Date Received: 7/18/91

% Moisture: not dec. 100.

Date Analyzed: 7/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	IU
74-83-9	Bromomethane	10.	IU
75-01-4	Vinyl Chloride	10.	IU
75-00-3	Chloroethane	10.	IU
75-09-2	Methylene Chloride	5.	IU
67-64-1	Acetone	10.	IU
75-15-0	Carbon Disulfide	5.	IU
75-35-4	1,1-Dichloroethene	5.	IU
75-34-3	1,1-Dichloroethane	5.	IU
540-59-0	1,2-Dichloroethene (total)	5.	IU
67-66-3	Chloroform	5.	IU
107-06-2	1,2-Dichloroethane	5.	IU
78-93-3	2-Butanone	10.	IU
71-55-6	1,1,1-Trichloroethane	5.	IU
56-23-5	Carbon Tetrachloride	5.	IU
108-05-4	Vinyl Acetate	10.	IU
75-27-4	Bromodichloromethane	5.	IU
78-87-5	1,2-Dichloropropane	5.	IU
10061-01-5	cis-1,3-Dichloropropene	5.	IU
79-01-6	Trichloroethene	5.	IU
124-48-1	Dibromochloromethane	5.	IU
79-08-5	1,1,2-Trichloroethane	5.	IU
71-43-2	Benzene	5.	IU
10061-02-6	Trans-1,3-Dichloropropene	5.	IU
75-25-2	Bromoform	5.	IU
108-10-1	4-Methyl-2-Pentanone	10.	IU
591-78-6	2-Hexanone	10.	IU
127-18-4	Tetrachloroethene	5.	IU
79-34-5	1,1,2,2-Tetrachloroethane	5.	IU
108-88-3	Toluene	5.	IU
108-90-7	Chlorobenzene	5.	IU
100-41-4	Ethylbenzene	5.	IU
100-42-5	Styrene	5.	IU
1330-20-7	Xylene (total)	5.	IU

AR500257

15  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVE IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

63686

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 63683

Matrix: (soil/water) WATER

Lab Sample ID:

**DRAFT**

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: E4420

Level: (low/med) LOW

Date Received: 7/18/91

Moisture: not dec. 100.

Date Analyzed: 7/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1B  
SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

69686

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 69583

Matrix: (soil/water) WATER

Lab Sample ID:

DRAFT

Sample wt/vol: 1000.0 (g/mL) mL

Lab File ID: A9215

Level: (low/med) LOW

Date Received: 7/19/91

% Moisture: not dec. 100. dec. 0.

Date Extracted: 7/19/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N pH: .0

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10.	IU
111-44-4	bis(2-Chloroethyl)ether	10.	IU
95-57-8	2-Chlorophenol	10.	IU
541-73-1	1,3-Dichlorobenzene	10.	IU
106-46-7	1,4-Dichlorobenzene	10.	IU
100-51-6	Benzyl alcohol	10.	IU
95-50-1	1,2-Dichlorobenzene	10.	IU
95-48-7	2-Methylphenol	10.	IU
39638-32-9	bis(2-Chloroisopropyl)ether	10.	IU
106-44-5	4-Methylphenol	10.	IU
621-64-7	N-Nitroso-di-n-propylamine	10.	IU
67-72-1	Hexachloroethane	10.	IU
98-95-3	Nitrobenzene	10.	IU
78-59-1	Isophorone	10.	IU
88-75-5	2-Nitrophenol	10.	IU
105-67-9	2,4-Dimethylphenol	10.	IU
65-85-0	Benzoic acid	50.	IU
111-91-1	bis(2-Chloroethoxy)methane	10.	IU
120-83-2	2,4-Dichlorophenol	10.	IU
120-82-1	1,2,4-Trichlorobenzene	10.	IU
91-20-3	Naphthalene	10.	IU
106-47-8	4-Chloroaniline	10.	IU
87-68-3	Hexachlorobutadiene	10.	IU
59-58-7	4-Chloro-3-methylphenol	10.	IU
91-57-6	2-Methylnaphthalene	10.	IU
77-47-4	Hexachlorocyclopentadiene	10.	IU
88-06-2	2,4,6-Trichlorophenol	10.	IU
95-95-4	2,4,5-Trichlorophenol	50.	IU
91-58-7	2-Chloronaphthalene	10.	IU
88-74-4	2-Nitroaniline	50.	IU
131-11-3	Dimethylphthalate	10.	IU
208-96-8	Acenaphthylene	10.	IU
606-20-2	2,6-Dinitrotoluene	10.	IU

AR500259

# 1C SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: NET

Contract:

59685

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 69683

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: A9215

DRAFT

Level: (low/med) LOW

Date Received: 7/18/91

% Moisture: not dec. 100. dec. 0.

Date Extracted: 7/19/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N PH: .0

Dilution Factor: 1.00

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

Q

99-09-2-----	3-Nitroaniline	50.	IU
83-32-9-----	Acenaphthene	10.	IU
51-28-5-----	2,4-Dinitrophenol	50.	IU
100-02-7-----	4-Nitrophenol	50.	IU
132-64-9-----	Dibenzofuran	10.	IU
121-14-2-----	2,4-Dinitrotoluene	10.	IU
84-66-2-----	Diethylphthalate	10.	IU
7005-72-3-----	4-Chlorophenyl-phenylether	10.	IU
86-73-7-----	Fluorene	10.	IU
100-01-6-----	4-Nitroaniline	10.	IU
534-52-1-----	4,6-Dinitro-2-methylphenol	50.	IU
86-38-6-----	N-Nitrosodiphenylamine (1)	50.	IU
101-53-3-----	4-Bromophenyl-phenylether	10.	IU
118-74-1-----	Hexachlorobenzene	10.	IU
87-86-5-----	Pentachlorophenol	10.	IU
85-01-8-----	Phenanthrene	50.	IU
120-12-7-----	Anthracene	10.	IU
84-74-2-----	Di-n-butylphthalate	10.	IU
206-44-0-----	Fluoranthene	10.	IU
129-00-0-----	Pyrene	10.	IU
85-68-7-----	Butylbenzylphthalate	10.	IU
91-94-1-----	3,3'-Dichlorobenzidine	10.	IU
56-55-3-----	Benzo(a)anthracene	20.	IU
218-01-9-----	Chrysene	10.	IU
117-81-7-----	bis(2-Ethylhexyl)phthalate	10.	IU
117-84-0-----	Di-n-octylphthalate	10.	IU
205-99-2-----	Benzo(b)fluoranthene	10.	IU
207-08-9-----	Benzo(k)fluoranthene	10.	IU
50-32-8-----	Benzo(a)pyrene	10.	IU
193-39-5-----	Indeno(1,2,3-cd)pyrene	10.	IU
53-70-3-----	Dibenz(a,h)anthracene	10.	IU
191-24-2-----	Benzo(g,h,i)perylene	10.	IU

(1) - Cannot be separated from diphenylamine

AR500260

ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

69686

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 69693

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: A9215

DRAFT

Level: (low/med) LOW

Date Received: 7/18/91

% Moisture: not dec. 100. dec. 0.

Date Extracted: 7/19/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N

pH: .0

Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET **DRAFT**

EPA SAMPLE 5002

Lab Name: CAMBRG Contract: ENVIRON  
 Lab Code: CAMBRG Case No.: FD414B SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) WATER Lab Sample ID: Q563-12611  
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: \_\_\_\_\_  
 Level: (low/med) LOW Date Received: 07/18/91  
 % Moisture: not dec. \_\_\_\_\_ dec. \_\_\_\_\_ Date Extracted: 07/23/91  
 Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/03/91  
 GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) <u>UG/L</u>	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	Lindane	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

AR500262

NET

## U.S. EPA - CLP

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

69686

Lab Name: NET ATLANTIC THOROFARE DI Contract:

Lab Code: NET

Case No.:

SAS No.: SALFORD SDG No.: 69683

Matrix (soil/water): WATER

Lab Sample ID: 23180-045

Level (low/med): LOW

Date Received: 07/18/91

Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

DRAFT

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	30.00	U		P
7440-36-0	Antimony	15.00	U		P
7440-38-2	Arsenic	2.00	U		P
7440-39-3	Barium	211.00			P
7440-41-7	Beryllium	2.00	U		P
7440-41-7	Cadmium	2.00	U		P
7440-70-2	Calcium	51400.00			P
7440-47-3	Chromium	3.00	U		P
7440-48-4	Cobalt	5.00	U		P
7440-50-8	Copper	8.00	B		P
7439-89-6	Iron	64.00	B		P
7439-92-1	Lead	3.00	U		P
7439-95-4	Magnesium	20800.00			P
7439-96-5	Manganese	2.00	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	6.00	U		P
7440-09-7	Potassium	800.00	B		P
7782-49-2	Selenium	3.00	U		P
7440-22-4	Silver	4.00	U		P
7440-23-5	Sodium	11500.00			P
7440-28-0	Thallium	3.00	U	W	P
7440-62-2	Vanadium	4.00	U		P
7440-66-6	Zinc	43.00			P
	Boron	250.00			P
	Cyanide	10.00	U		C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

826B-D013-GW11

AR500263

1A  
VOLATILE ORS ICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

63683

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 63683

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: E4419

Level: (low/med) LOW

Date Received: 7/18/91

% Moisture: not dec. 100.

Date Analyzed: 7/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

DRAFT

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L g

74-87-3	Chloromethane	10.	IU
74-83-3	Bromomethane	10.	IU
75-01-4	Vinyl Chloride	10.	IU
75-00-3	Chloroethane	10.	IU
75-09-2	Methylene Chloride	5.	IU
67-64-1	Acetone	10.	IU
75-15-0	Carbon Disulfide	5.	IU
75-35-4	1,1-Dichloroethene	5.	IU
75-34-3	1,1-Dichloroethane	5.	IU
540-59-0	1,2-Dichloroethene (total)	5.	IU
67-66-3	Chloroform	5.	IU
107-06-2	1,2-Dichloroethane	5.	IU
78-93-3	2-Butanone	10.	IU
71-55-6	1,1,1-Trichloroethane	5.	IU
56-23-5	Carbon Tetrachloride	5.	IU
108-05-4	Vinyl Acetate	10.	IU
75-27-4	Bromodichloromethane	5.	IU
78-87-5	1,2-Dichloropropane	5.	IU
10061-01-5	cis-1,3-Dichloropropene	5.	IU
79-01-6	Trichloroethene	5.	IU
124-48-1	Dibromochloromethane	5.	IU
79-00-5	1,1,2-Trichloroethane	5.	IU
71-43-2	Benzene	5.	IU
10061-02-6	Trans-1,3-Dichloropropene	5.	IU
75-25-2	Bromoform	5.	IU
108-10-1	4-Methyl-2-Pentanone	10.	IU
591-78-6	2-Hexanone	10.	IU
127-18-4	Tetrachloroethene	5.	IU
79-34-5	1,1,2,2-Tetrachloroethane	5.	IU
108-88-3	Toluene	5.	IU
108-90-7	Chlorobenzene	5.	IU
100-41-4	Ethylbenzene	5.	IU
100-42-5	Styrene	5.	IU
1330-20-7	Xylene (total)	5.	IU

AR500264

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA 8240-A-10

63685

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 63683

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: E4419

**DRAFT**

Level: (low/med) LOW

Date Received: 7/18/91

% Moisture: not dec. 100.

Date Analyzed: 7/22/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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30.				

AR500265

19  
SEMIVOLATILE OR VOC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AR2697

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 63683

Matrix: (soil/water) WATER

Lab Sample ID:

DRAFT

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: A9214

Level: (low/med) LOW

Date Received: 7/18/91

% Moisture: not dec. 100. dec. 0.

Date Extracted: 7/19/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N

pH: .0

Dilution Factor: 1.00

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

108-95-2	Phenol	10.	IU
111-44-4	bis(2-Chloroethyl)ether	10.	IU
95-57-8	2-Chlorophenol	10.	IU
541-73-1	1,3-Dichlorobenzene	10.	IU
106-46-7	1,4-Dichlorobenzene	10.	IU
100-51-6	Benzyl alcohol	10.	IU
95-50-1	1,2-Dichlorobenzene	10.	IU
95-48-7	2-Methylphenol	10.	IU
39638-32-9	bis(2-Chloroisopropyl)ether	10.	IU
106-44-5	4-Methylphenol	10.	IU
621-64-7	N-Nitroso-di-n-propylamine	10.	IU
67-72-1	Hexachloroethane	10.	IU
98-95-3	Nitrobenzene	10.	IU
78-59-1	Isophorone	10.	IU
88-75-5	2-Nitrophenol	10.	IU
105-67-9	2,4-Dimethylphenol	10.	IU
65-85-0	Benzoic acid	50.	IU
111-91-1	bis(2-Chloroethoxy)methane	10.	IU
120-83-2	2,4-Dichlorophenol	10.	IU
120-82-1	1,2,4-Trichlorobenzene	10.	IU
91-20-3	Naphthalene	10.	IU
106-47-8	4-Chloroaniline	10.	IU
87-68-3	Hexachlorobutadiene	10.	IU
59-50-7	4-Chloro-3-methylphenol	10.	IU
91-57-6	2-Methylnaphthalene	10.	IU
77-47-4	Hexachlorocyclopentadiene	10.	IU
88-06-2	2,4,6-Trichlorophenol	10.	IU
95-95-4	2,4,5-Trichlorophenol	50.	IU
91-58-7	2-Chloronaphthalene	10.	IU
88-74-4	2-Nitroaniline	50.	IU
131-11-3	Dimethylphthalate	10.	IU
208-96-8	Acenaphthylene	10.	IU
606-20-2	2,6-Dinitrotoluene	10.	IU

AR500266



SEMIVOLATILE ORG ICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

69685

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 69683

Matrix: (soil/water) WATER

Lab Sample ID:

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: A9214

Level: (low/med) LOW

Date Received: 7/18/91

% Moisture: not dec. 100. dec. 0.

Date Extracted: 7/19/91

Extraction: (SepF/Cont/Gonc) CONT

Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N

pH: .0

Dilution Factor: 1.00

DRAFT

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/L	Q
99-09-3	3-Nitroaniline	50.	IU
83-32-9	Acenaphthene	10.	IU
51-28-5	2,4-Dinitrophenol	50.	IU
100-02-7	4-Nitrophenol	50.	IU
132-64-9	Dibenzofuran	10.	IU
121-14-2	2,4-Dinitrotoluene	10.	IU
84-66-2	Diethylphthalate	10.	IU
7005-72-3	4-Chlorophenyl-phenylether	10.	IU
86-73-7	Fluorene	10.	IU
100-01-6	4-Nitroaniline	50.	IU
534-52-1	4,6-Dinitro-2-methylphenol	50.	IU
86-30-6	N-Nitrosodiphenylamine (1)	10.	IU
101-55-3	4-Bromophenyl-phenylether	10.	IU
118-74-1	Hexachlorobenzene	10.	IU
87-86-5	Pentachlorophenol	50.	IU
85-01-8	Phenanthrene	10.	IU
120-12-7	Anthracene	10.	IU
84-74-2	Di-n-butylphthalate	10.	IU
206-44-0	Fluoranthene	10.	IU
129-00-0	Pyrene	10.	IU
85-68-7	Butylbenzylphthalate	10.	IU
91-94-1	3,3'-Dichlorobenzidine	20.	IU
56-55-3	Benzo(a)anthracene	10.	IU
218-01-9	Chrysene	10.	IU
117-81-7	bis(2-Ethylhexyl)phthalate	10.	IU
117-84-0	Di-n-octylphthalate	10.	IU
205-99-2	Benzo(b)fluoranthene	10.	IU
207-08-9	Benzo(k)fluoranthene	10.	IU
50-32-8	Benzo(a)pyrene	10.	IU
193-39-5	Indeno(1,2,3-cd)pyrene	10.	IU
53-70-3	Dibenz(a,h)anthracene	10.	IU
191-24-2	Benzo(g,h,i)perylene	10.	IU

(1) - Cannot be separated from diphenylamine

15  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVE IDENTIFIED COMPOUNDS

SDG SAMPLE NO.

63683

Lab Name: NET

Contract:

Lab Code: NET

Case No.: SALFORD SAS No.:

SDG No.: 63683

Matrix: (soil/water) WATER

Lab Sample ID:

DRAFT

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: A9214

Level: (low/med) LOW

Date Received: 7/18/91

% Moisture: not dec. 100. dec. 0.

Date Extracted: 7/19/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N pH: .0

Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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AR500268

10  
PESTICIDE ORGANICS ANALYSIS DATA SHEET **DRAFT**

EPA SAMPLE <sup>50</sup>

Lab Name: CAMBRG

Contract: ENVIRON

DO13GW

Lab Code: CAMBRG

Case No.: FD414B

SAS No.: \_\_\_\_\_

SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER

Lab Sample ID: 0965-12610

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: \_\_\_\_\_

Level: (low/med) LOW

Date Received: 07/18/91

% Moisture: not dec. \_\_\_\_\_ dec. \_\_\_\_\_

Date Extracted: 07/23/91

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 08/03/91

GPC Cleanup: (Y/N) N pH: 6.0

Dilution Factor: 1.00

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

Q

319-84-6-----	alpha-BHC	0.050U
319-85-7-----	beta-BHC	0.050U
319-86-8-----	delta-BHC	0.050U
58-89-9-----	Lindane	0.050U
76-44-8-----	Heptachlor	0.050U
309-00-2-----	Aldrin	0.050U
1024-57-3-----	Heptachlor epoxide	0.050U
959-98-8-----	Endosulfan I	0.050U
60-57-1-----	Dieldrin	0.10U
72-55-9-----	4,4'-DDE	0.10U
72-20-8-----	Endrin	0.10U
33213-65-9-----	Endosulfan II	0.10U
72-54-8-----	4,4'-DDD	0.10U
1031-07-8-----	Endosulfan sulfate	0.10U
50-29-3-----	4,4'-DDT	0.10U
72-43-5-----	Methoxychlor	0.50U
53494-70-5-----	Endrin ketone	0.10U
5103-71-9-----	alpha-Chlordane	0.50U
5103-74-2-----	gamma-Chlordane	0.50U
8001-35-2-----	Toxaphene	1.0U
12674-11-2-----	Aroclor-1016	0.50U
11104-28-2-----	Aroclor-1221	0.50U
11141-16-5-----	Aroclor-1232	0.50U
53469-21-9-----	Aroclor-1242	0.50U
12672-29-6-----	Aroclor-1248	0.50U
11097-69-1-----	Aroclor-1254	1.0U
11096-82-5-----	Aroclor-1260	1.0U

AR500269

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE :

69685

Lab Name: NET ATLANTIC THOROFARE DI Contract:

Lab Code: NET

Case No.:

SAS No.: SALFORD SDG No.: 696

Matrix (soil/water): WATER

Lab Sample ID: 23180-0

Level (low/med): LOW

Date Received: 07/18/9

Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

DRA

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	30.00	U		P
7440-36-0	Antimony	308.00			P
7440-38-2	Arsenic	2.00	U		F
7440-39-3	Barium	207.00			P
7440-41-7	Beryllium	2.00	U		P
7440-41-7	Cadmium	2.00	U		P
7440-70-2	Calcium	50000.00			P
7440-47-3	Chromium	3.00	U		P
7440-48-4	Cobalt	5.00	U		P
7440-50-8	Copper	5.00	B		P
7439-89-6	Iron	76.00	B		P
7439-92-1	Lead	3.00	U		F
7439-95-4	Magnesium	20200.00			P
7439-96-5	Manganese	2.00	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	6.00	U		P
7440-09-7	Potassium	834.00	B		P
7782-49-2	Selenium	3.00	U		F
7440-22-4	Silver	4.00	U		P
7440-23-5	Sodium	11300.00			P
7440-28-0	Thallium	3.00	U	W	F
7440-62-2	Vanadium	4.00	U		P
7440-66-6	Zinc	45.00			P
	Boron	287.00			P
	Cyanide	10.00	U		C

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

826B-DO13-GW01

AR500270

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
841 Chestnut Building  
Philadelphia, Pennsylvania 19107

Office of Superfund  
SE Pennsylvania Remedial Section

Direct Dial (215) 597-8257  
Mail Code 3HW21

November 5, 1991

M  
230 Fawn Drive  
Harleysville, Pennsylvania 19438

Re: Analysis of the Home Well during the  
Remedial Investigation of the Salford Quarry Site

Dear Mr

A sample from your home well was collected during the period of September 10-17, 1991 and subjected to laboratory analyses. The preliminary results from these analyses were reviewed and the following evaluation is offered.

Regarding the enclosed Sample Results Reports, chemicals that have numerical values and codes represent chemicals that were analyzed. If no numbers are noted, the corresponding chemicals were not included in the analysis.

The contaminant listed below was detected in your well at levels of concern (please refer to the enclosed Fact Sheet):

<u>CONTAMINANT</u>	<u>CONCENTRATION</u>
Boron	5,020 parts per billion

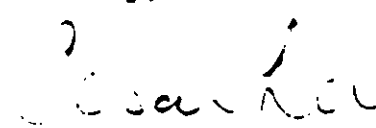
It is important to realize that these results are based upon one sample only, and may not necessarily be typical of your well. According to currently acceptable EPA standards, the other substance which was analyzed for and detected in your well, lead, (please refer to the enclosed Sample Result Reports) pose no threat to consumers. This constituent was either present in your well at concentrations below EPA's drinking water standards or they elicit less than one chance in a million of developing cancer (assuming that 2 liters of this water are consumed each day for 70 years).

AR500271

The sampling of your home well was performed as part of the Remedial Investigation being done under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) as amended under the Superfund Amendments and Reauthorization Act of 1986 (SARA). This program is commonly referred to as Superfund. Superfund includes two main components. These are called removal and remedial actions. Removal actions are taken on an emergency basis to prevent acute or subchronic exposure to high levels of contamination. In the case of boron, levels in the drinking water exceeding the reference dose 3150 ppb trigger removal actions. In this case providing bottled water to affected residences. Remedial actions are taken to prevent potential chronic or lifetime exposures to contaminants. Remedial clean up goals for drinking water consider lifetime health advisories (620 ppb boron, see enclosed fact sheet) and other chronic toxicity information.

If you have any questions or concerns about your test results, please contact Bill Foster at (215) 597-4283 or me at (215) 597-8257.

Sincerely,

  
Cesar Lee (3HW21)  
Remedial Project Manager  
SE Pennsylvania Remedial Section

Enclosures: Sample Results Reports  
Summary of Select EPA Standards  
Boron Fact Sheet

cc: Bill Foster, Drinking Water Contact

AR500272

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

D023GW01

Lab Name: ETC CORP.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: M7442

Matrix (soil/water): WATER

Lab Sample ID: CA8574

Level (low/med): LOW

Date Received: 09/13/91

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	4.24			P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-4	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				
	Barium	3020.0			P

DRAFT

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: \_\_\_\_\_

Comments: